

## TRANSACTIONS OF THE AMERICAN FISHERIES SOCIETY

### Guide for Authors

#### Editorial Policy

We encourage the submission of original papers on fisheries science, including ones on genetics, physiology, biology, ecology, population dynamics, economics, health, culture, and other topics pertaining to marine and freshwater finfish and exploitable shellfish. We generally favor papers that address functional questions (such as how, why, and when). However, we recognize that many aspects of fisheries science still lack basic descriptions (such as what, where, and how much) and will consider descriptive papers that further understanding of functional processes, particularly those based on comparative studies of species, habitats, and so forth.

The papers that are most appropriate for *Transactions* are those that provide a fairly broad treatment of a topic. Thus, we will consider papers that focus on systematics but not ones that focus on taxonomy; similarly, we will consider papers offering a biogeographic analysis but not ones reporting the extension of a species' range. Papers devoted entirely to new techniques will be considered if those techniques clearly expand research capabilities; however, reports of modifications to equipment and minor analytical advances should be presented in the context of more substantive research. All papers will be evaluated on the basis of their scientific competence, integration with current knowledge, and contribution to the understanding of basic principles.

Although *Transactions* focuses on basic and applied research, we value synthesis and will consider commentaries and review papers that provide critical assessments, new interpretations, and distillations of principles and generalities. We strongly discourage the fragmented reporting of scientific results; however, when a set of results is too extensive to be published in a single, comprehensive paper, we recommend that it be presented in two or more companion papers. Authors are also cautioned not to republish original data without full attribution and explicit permission; see "Dual Publication of Scientific Information" in *Transactions of the American Fisheries Society* 110:573–574, 1981.

Authors must also confirm that all of their research meets the ethical guidelines and legal requirements of the country in which it was performed. For investigators in the United States, AFS has developed the document "Guidelines for the Use of Fishes in Research," which addresses both field and laboratory research with fish. A free version of this document is available for viewing and/or downloading at <http://fisheries.org/policy-media/science-guidelines/guidelines-for-the-use-of-fishes-in-research/>.

*Transactions* provides the broadest focus of the American Fisheries Society's (AFS) five journals, complementing the narrower orientations of the others. Papers concerning the management aspects of fisheries science should be submitted to the *North American Journal of Fisheries Management*; those dealing with aquaculture should be submitted to the *North American Journal of Aquaculture*; those dealing with the health of fish and other aquatic organisms should be submitted to the *Journal of Aquatic Animal Health*; and those with a focus on marine and estuarine species and habitats should be submitted to *Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science*.

### Manuscript Submission and Review

#### Manuscript Categories

Manuscripts may be submitted in any of the following categories: (1) *Articles* are full reports and critical reviews; manuscripts in this category may be up to 150 pages long, including tables, figures, and other supporting material (the equivalent of about 50 printed pages). Critical reviews of timely topics will also be considered in this category. (2) *Notes* are short papers of inherent value but limited scope, brief reports of important but unrefined experiments that the author cannot repeat (for nontechnical reasons), and observations on methodology and protocol. (3) *Forum* papers are in-depth essays or commentaries on current fisheries topics (for an example, see "A Commentary on Western Atlantic Bluefin Tuna Assessments," *Transactions* 127:838–855, 1998). (4) *Comments* are critiques of papers published by this journal, responses to which will be invited from the original authors.

Papers that are judged to be especially topical, important, and/or likely to be of wide interest may be "featured," that is, given special treatment that includes accelerated production; waiver of page charges and publication fees; waiver of the fee for printing figures in color (if applicable); free online access for two months; and special promotion. Authors who wish to have their papers featured should indicate that at the time of submission, briefly explaining why their papers merit such treatment. Decisions about featuring papers rest with the editors.

#### Submission Procedures

Manuscripts and associated correspondence should be submitted at the journal's online submission and tracking site, <http://mc.manuscriptcentral.com/tafs> (this site may also be accessed through the Publications section at the American Fisheries Society's Web site, [www.fisheries.org](http://www.fisheries.org)). Detailed instructions, including acceptable file formats, are available at the site.

Although the submission site permits authors to include a cover letter, such letters are generally not necessary; they should be included only when they contain information that cannot easily be incorporated into the standard submission form.

#### *Review Process*

Submitted papers will be critically reviewed by at least two experts in the relevant discipline(s) and evaluated by one of the journal's editors. A manuscript may be returned to its author without review if it is judged to be of poor quality or inappropriate for this journal.

All submissions are electronically screened for the inappropriate use of material from previously published sources. In submitting a paper, you are stipulating that, except where explicitly indicated otherwise, all of the statements, data, and other elements reflect your own work and not that of others. All allusions to the work of others should be properly cited; exact quotations from other sources should be in quotation marks. Authors are also cautioned not to repeat long passages from their own publications. Failure to follow these requirements may result in rejection of the paper and, in extreme cases, restrictions on publishing in this journal.

Authors have the option of not having their names revealed to the reviewers (to facilitate the selection of reviewers, however, the editor and associate editor will always be aware of the authors' identities). If authors wish to exercise this option, they should (1) check the appropriate block on the submission page, (2) put the title page in a separate file that can be excluded from the manuscript file that the reviewers' receive, and (3) remove from their manuscript any other information that may reveal their identities.

Review of manuscripts relies on volunteers and can be a fairly lengthy process. However, we strive to get decisions to authors in 9–12 weeks. If revisions are requested, authors should make them promptly, normally within 30 days of receiving the editor's decision (short extensions will be allowed if there are justifiable delays). If a revision is not received within the allowed time, the paper will be considered withdrawn; late revisions will be treated as new submissions and may have to go through the review process again.

#### *Publication Charges*

Publication charges are US\$100 per printed page and will be billed when the paper is in proof. Full and partial subsidies are available to voting members of the American Fisheries Society who certify that grant or agency funds are not available. Manuscript reviews are not affected by requests for subsidies; however, at least one author must be an AFS member by the time that the paper is published. Every paper published in the journal is subject to a \$30 fee to offset handling costs. Authors will receive an "e-print" of the published article (i.e., a special link that grants complimentary access to the online version that may be shared with up to 49 other people); they may also purchase reprints of their papers from the printer when they receive their proofs.

## **Manuscript Preparation**

### *Components*

A typical manuscript will have the following components:

*Title page.*—The title page should give the title of the paper and the name(s) and complete mailing address(es) of the author(s). In addition to accurately reflecting the content of the paper, the title should be short (preferably no more than 12 words) and to the point. A suggested running head (shortened version of the title) should also be included on the title page. Keywords are not used in this journal, however, and so should not be included.

*Abstract.*—Articles, notes, and forum papers require abstracts; comments do not. The abstract should consist of one paragraph (up to 300 words for an article and up to 200 words for a note or forum paper) that concisely states why and (generally) how the study was done as well as what the results were and what they mean. It should not simply outline the contents (e.g., avoid statements to the effect that such-and-such is presented) or present the methods in detail. Citations and footnotes are not allowed in abstracts, and abbreviations should be used sparingly. Detailed statistical results (e.g., *P*-values) should be reserved for the main text. Because abstracts tend to be more widely read than complete papers, authors should take care to make them comprehensive, clear, and interesting.

*Introduction.*—The introduction should provide a context for the work to be reported, particularly its purpose and importance. In doing so, it should present at least a summary review of previous literature on the subject.

*Methods.*—Descriptions of the methods employed in the study should be detailed enough to enable readers to repeat it. Previously published descriptions may be cited in lieu of presenting complete new ones provided that the sources are readily available (in general, avoid citations to theses, dissertations, agency reports, and similar sources in this instance). If more than one method was used or a particular method entails a series of major steps, present each method or step in a separate subsection. Appropriate tables and figures can reduce the need for detailed verbal descriptions of methods. Papers focusing entirely on techniques or models do not require a separate section on methods.

*Results.*—As a rule, it is preferable to present detailed results in tables and/or figures and to devote the text to summary statements and analyses. Display data in tables if numerical precision is important, in figures if trends are paramount. Although the presentation of a large amount of raw data is generally not meaningful, data should not be refined to the point that the reader cannot verify the analyses or use the information for other purposes. In presenting the results of statistical tests, report the type of test, the test statistic, the degrees of freedom, and the significance level (*P*-value). Although the value 0.05 is commonly used as the threshold in hypothesis testing, we have no specific requirements in this

area; in the interest of providing useful information, authors should report all *P*-values. It is very important that statistical designs and models be appropriate for the studies in which they are used; we encourage authors to have a statistician review their work before submitting a paper for publication. Lastly, statistical results should be presented in biologically meaningful terms rather than in purely statistical jargon.

*Discussion.*—The merits of a paper can be greatly enhanced by a good discussion. In it authors should indicate the significance of their research, how it relates to current knowledge, and any avenues that it suggests for further research. Informed speculation is acceptable as long as it is clearly identified as such. Authors should avoid merely restating their results and/or (re)summarizing the literature.

*Acknowledgments.*—In this section authors may acknowledge the sources of their funding and thank those who contributed directly to the project or the preparation of the manuscript. Dedications and acknowledgment of emotional support from family and friends are not appropriate. If all authors are employees of the U.S. Government, this section should state that the mention of specific products does not constitute endorsement by their agency.

*References.*—References should be selected with a view to relevance and availability, with preference given to peer-reviewed publications that are widely available. Internal reports, papers presented at conferences, articles in preparation, and so forth should be treated as unpublished and cited like personal communications (i.e., parenthetically in the text alone). Authors should obtain written permission to cite such material. Common reference formats are given below; a more complete list is given in chapter 8 of the AFS style guide, which is available at the AFS Web site as well as the manuscript submission site.

*Footnotes.*—Footnotes should be kept to a minimum. Typically, they are used to report changes of address for authors, identify additional sources of data, or explain technical nomenclature (e.g., ages of anadromous fish and structures of fatty acids).

*Tables.*—In general, tables should be designed to present related information as simply and directly as possible. A good rule of thumb is to establish the point(s) that the table is intended to make, then to select the information required to do that and determine the most logical order in which to present it. Detailed guidelines for the preparation of tables can be found in chapter 12 of the AFS style guide, but a few of the more important ones may be mentioned here:

1. We prefer to print tables in “portrait” orientation but will allow ones in “landscape” orientation as long as they take up no more than one page.
2. Tables that are too long or too wide to fit on one page can be carried over to a facing page, but authors should try to avoid creating tables that span more than two pages. In

general, very large tables should appear as supplements in the online version of the article only.

3. Tables should contain only three horizontal rules (lines)—one before the column headings, one after those headings, and one at the bottom of the table—and no vertical rules.
4. Captions no longer need to be detailed enough that tables can be understood apart from the text, but they should provide enough information that readers can easily perceive the tables’ purpose and structure (if there is more than one table with the same general structure, the captions to the latter ones can be shortened by referring the reader to the first such table for details). Captions should not merely list the contents of tables in a mechanical way.
5. There should be only one set of column headings. If the information to be presented seems to require more than that, the table should be redesigned (e.g., by switching the rows and columns) or split into two or more tables.
6. Bold, centered headings may be used within the body of the table to distinguish different types of data as long as they do not conflict with the column headings.
7. Only the first letter of a row or column heading should be capitalized (along with words or symbols that would be capitalized in ordinary text).
8. The data within the body of the table should not be crowded; if need be, blank rows can be inserted to separate data into logical groups or provide guides for the eye.
9. Significant differences should be indicated by lowercase letters, beginning with the letter “z” (“z” may mark either the highest or the lowest value[s], but subsequent letters have to follow suit); in most cases, there should be no omissions in the sequence of the letters. The letters should be set on the same lines as the values to which they pertain (not as superscripts) and be separated from those values by single spaces.
10. Values less than 1.00 should be preceded by zeroes (e.g., 0.78).
11. Values need not be reported to all significant digits if a lesser number of digits conveys the information in a meaningful way.
12. Footnotes should be indicated by superscripted lowercase letters, beginning with the letter “a”; the letters may appear in the row and column headings as well as the body of the table but not in the caption. The footnotes per se should be listed on separate lines at the bottom of the table.

*Figure captions.*—Figure captions should appear with the figures themselves rather than (as formerly) in a separate list; however, the name of the corresponding author should still be given outside the image area of each figure for purposes of identification. Figure captions should follow the same general rules as those for tables. To the extent possible, however, panel descriptions, (full) variable names, units of measure, legends, and so forth should be included in the figure itself rather than in the caption; in no case should they be given in both places.

Different panels may be designated “A,” “B,” and so forth, but it is preferable to give them substantive labels (e.g., “Treatment” and “Control”).

*Figures.*—Figures include visual materials such as graphs, maps, diagrams, and photographs. Figures have proved to be one of the most troublesome aspects of the publishing process. As the compositor has only limited ability to modify figures, they frequently have to be sent back to the authors for correction.

At the most fundamental level, figure design should follow certain commonsense principles: figures should be as simple and straightforward as possible; have a high enough resolution to be easily readable (300 dpi or more); and be consistent in the use of lettering, line widths, and other graphic elements. In addition, they need to conform to AFS style. It is particularly important to remember that most figures will be reduced by up to 50% when printed and thus need to be designed with this in mind. We recommend that authors use a copier to reduce each figure to the width of one or two printed columns (3.50 and 7.25 inches, respectively), depending on the dimensions of the particular figure, and verify that all elements are still legible. The following are particularly problematical: bold type (which tends to blur), italic type (which tends to become less visible), dashed lines (which tend to appear continuous) and dotted lines (which tend to disappear entirely). Additional guidelines for the preparation of figures may be found in the AFS style guide.

In the print version of the journal, all figures will be reproduced in black and white unless authors have made specific arrangements with the Journals Department to cover the extra costs of color printing. In the online version, however, color figures will be reproduced in color at no additional charge. Note that the availability of an acceptable version in color does not obviate the need for a legible version in black and white and that in some cases there may be no alternative to using color. Because color printing is expensive, authors are advised not to use color to distinguish phenomena when other means (different shading, symbols, and so forth) are adequate. If color has to be used, avoid using similar colors or shades that may be difficult for readers to distinguish. Also, in deference to readers with color blindness, avoid using red and green in the same figure.

Digital files in EPS, TIFF, and PSD formats are preferred; figures should be submitted as separate files rather than being imbedded in text files.

*Call-outs.*—Call-outs are in-text references to tables, figures, and supplementary material (appendices and supplements [discussed below]), e.g., “(Table 1).” All tables and figures in the main article should be called out at appropriate places; appendices and supplements may be called out either individually or generally, depending on their purpose and how closely related to the article they are. Call-outs to tables and figures should be in strict numerical order. Call-outs need not be repeated each time a result shown in a table or figure is mentioned as long as it is clear which table or figure contains it.

*Mathematical and statistical expressions.*—Chapter 4 of the AFS style guide covers the treatment of these expressions in detail, but a few general points may be mentioned here:

1. Symbols representing variables and parameters should be italicized if they consist of single letters in the Latin alphabet (e.g.,  $K$  and  $F$ ). All other symbols except Greek letters may be italicized or not, provided that the treatment is consistent (e.g., CPUE or *CPUE*); Greek letters should never be italicized.
2. Natural logarithms may be expressed as  $\log_e$  or  $\ln$ ; logarithms with other bases should identify the base (e.g.,  $\log_{10}$ ).
3. Long equations should be “broken” at logical points, normally after an operator such as a plus or minus sign.
4. Definitions of variables and parameters may be run into the text if only a few such terms are involved. If there are a number of them or they are used in more than one equation, a list is preferable (see section 4.8 of the style guide).
5. Avoid the expressions “the mean length was  $45.2 \pm 3.84$  mm” and “the mean ( $\pm$ SD) length was  $45.2 \pm 3.84$  mm” because they are at best awkward and at worst inaccurate. Use the expressions “the mean  $\pm$  SD length was  $45.2 \pm 3.84$  mm” or “the mean length was 45.2 mm (SD, 3.84)” instead.

*Appendices and supplements.*—In addition to the standard elements of a paper, authors may submit certain supplementary material, such as additional data or results, the derivations of equations, computer code, and so forth. For publication purposes, such material will be treated either as an *appendix* (which will appear with the article in both the print and online versions) or as a *supplement* (which will appear only in the online version). Of course, all material that is essential to understanding an article should be included in the article itself. Closely related material that will be of interest to a large number of readers may be placed in an appendix. Other material may be made available through a supplement if the editors deem it important enough for readers to have ready access to. In terms of format, appendices should be regarded as extensions of articles and thus follow AFS style strictly. Supplements, by contrast, may be in any format that is suitable for their contents; however, (1) there should be consistency between the symbols, abbreviations, and so forth used in the supplement and those used in the article and (2) either the title of the supplement or the first paragraph should make clear how it relates to the article.

#### *Style and Format*

Published articles represent the culmination of research efforts, often lengthy and highly sophisticated ones. To do those efforts justice, however, the articles must be well written; poorly written articles not only place an unnecessary burden on readers, they also cast doubt on the quality of the research itself. Although some people naturally write better than others, most can develop the ability to write well through

practice and attention to detail. The introduction to the AFS style guide should be a particularly valuable resource in this regard; in a few pages, it identifies the errors in composition mostly commonly encountered in the papers submitted to AFS journals and shows how to correct them. We also encourage authors to have other fisheries professionals critique their initial drafts with respect to presentation as well as substance. Authors whose native language is not English should make a point of having English speakers review their manuscripts before submission; free assistance is available from the International Fisheries Section of AFS (<http://bit.ly/1UhdQz>).

In writing for AFS journals, authors are also expected to follow certain style conventions pertaining to capitalization, spelling, punctuation, mathematical expressions, technical terms, and so forth. For instance, we require that the letter *P* (indicating the degree of statistical significance) be capitalized as well as italicized, whereas some journals require that it be lowercased. Although some of the more important style conventions are noted below, all of them are discussed in detail in the AFS style guide. Authors would be well advised to become familiar with the main elements of AFS style and to consult the guide frequently in preparing their manuscripts.

*Resources for authors.*—As suggested above, the principal resource on matters of style is the AFS style guide. Authors may also find it helpful to consult the *Chicago Manual of Style* (University of Chicago Press, Chicago) and *Scientific Style and Format* (Council of Science Editors, Chicago), though the AFS style guide always takes precedence.

The standard resource for word usage and spelling is *Webster's Third New International Dictionary*, as updated by the latest edition of *Merriam-Webster's Collegiate Dictionary*. Appendix A of the AFS style guide shows the proper way to spell many of the terms used in fisheries writing (some of which are not in the dictionary), including terms for which our preferred spelling differs from that in the dictionary.

The standard resource for the common and scientific names of North American fish species is the current edition of *Common and Scientific Names of Fishes from the United States, Canada, and Mexico* (American Fisheries Society, Bethesda, Maryland). For other aquatic species, authors should follow the companion publications *World Fishes Important to North Americans* and *Common and Scientific Names of Aquatic Invertebrates from the United States and Canada* (the volumes *Mollusks*, *Decapod Crustaceans*, and *Cnidaria and Ctenophora* are currently available in the latter series).

In most cases, scientific names should be included only at first mention in the abstract and text; full common names (e.g., “Coho Salmon” rather than simply “Coho”) should be used elsewhere. The format for the first mention is

Coho Salmon *Oncorhynchus kisutch*,

in which all parts of the common name are capitalized and the scientific name follows the common name but is not given in

parentheses. See chapter 9 of the AFS style guide for additional information on the treatment of species' names; the accepted plurals of fish names are given in Appendix C of the guide.

In papers about population dynamics, we prefer the notation used by W. E. Ricker in *Computation and Interpretation of Biological Statistics of Fish Populations* (Fisheries Research Board of Canada Bulletin 191, 1975). However, all symbols should be defined anew in every paper. Our standard sources for chemical and enzyme names are the current editions of the *Merck Index* (Merck & Co., Rahway, New Jersey) and *Enzyme Nomenclature* (Academic Press, San Diego, California), respectively. The preferred treatment of allozymes is noted in the article “Gene Nomenclature for Protein-Coding Loci in Fish” by J. B. Shaklee et al. (*Transactions of the American Fisheries Society* 119:2–15, 1990). Additional information on the treatment of these and other technical matters may be found in chapter 11 of the AFS style guide.

*Manuscript format.*—As an aid to reviewers and editors, authors should

1. use double spacing for all components of the paper, including the title page, footnotes, and tables;
2. number all pages sequentially and provide continuous line numbering beginning with the title page;
3. use a 12-point font throughout;
4. use three levels of headings, as follows: for the major sections of the paper (Methods, Results, Discussion, Acknowledgments, and References), type them flush left with initial letters capitalized (except for prepositions and conjunctions) in ordinary type, preceded by “<A>” (e.g., <A>Methods); for subsections in Results and Discussion, type them flush left with initial letters capitalized in ordinary type preceded by “<B>” (e.g., <B>Treatment 1); and for subsections in Methods and sub-subsections in Results and Discussion, run them into the text with only the initial letter of the first word capitalized, all words italicized, preceded by “<C>” and followed by a period and a long dash (e.g., <C>Sampling design.—); and
5. turn off automatic hyphenation and justification.

*General style conventions.*—A detailed presentation of AFS style is beyond the scope of these guidelines. The following conventions, however, are so general as to apply to virtually every paper:

1. Only symbols and abbreviations included in Webster's dictionaries or listed at the end of these guidelines (as well as at the back of each printed issue of the journal) may be used without definition. All others should be defined at first use (e.g., index of biotic integrity [IBI]). Abbreviations should not be introduced unless they are used at least two more times.
2. All measurements should be given in metric units. The only exceptions are a few quantities that are typically expressed only one way (e.g., g [of medication]/lb [of feed]).

3. Single-digit numbers should be spelled out unless they are used with units of measure or in conjunction with larger values (e.g., 2 mg/L; 8 Walleyes and 16 Saugers). Numbers with four or more digits should contain commas; those less than 1.00 should be preceded by zeroes.
4. Ratios involving two values or units of measure should be indicated by forward slashes (e.g., 0.30 g/d); ratios involving three such terms should be indicated by negative exponents (e.g., 0.01 g . g<sup>-1</sup> . d<sup>-1</sup>).
5. Ages of fish should be expressed by Arabic numerals and not contain plus signs (e.g., a fish is age 1 [not age 1+] from the January 1 after it hatches to the following December 31).
6. Dates should be expressed as month–day–year (e.g., January 11, 2011). Note that the term “Julian day” does not mean day of the year and should not be used in that context.
7. Time should be expressed in terms of the 24-hour clock followed by the word “hours” (e.g., 1435 hours rather than 2:35 p.m.).

*Reference formats.*—Text citations should conform to the author–year system. Examples of common types are as follows:

(Johnson 1995)  
 (Johnson and Smith 1996)  
 (Johnson et al. 1997, 1998) [three or more authors]  
 (Johnson et al. 1999, 2001; Smith 2000)  
 (Johnson 2000a, 2000b)  
 (Johnson, in press)  
 (E. M. Johnson, National Marine Fisheries Service, personal communication)

Note that with one exception citations should be listed in chronological order; the exception is that all citations to the same author(s) should be grouped together (see the fourth example above).

In reference lists, references should be in strict alphabetical order by authors' last names; if there are two or more references with the same authors, those references should then be listed chronologically. All authors must be named in references.

Detailed information on reference formats may be found in chapter 8 of the AFS style guide. The more common types are as follows:

#### Articles in journals

Pace, M. L., and J. D. Orcutt. 1981. The relative importance of protozoans, rotifers, and crustaceans in a freshwater zooplankton community. *Limnology and Oceanography* 26:822–830.

Note that (1) except for the first author, authors' initials come before their last names; (2) only the first word of the title of the article is capitalized (along with any other words that

would be capitalized in ordinary text); and (3) the name of the journal is given in full.

#### Books

Krebs, C. J. 1989. *Ecological methodology*. Harper and Row, New York.

#### Chapters in books

Omerik, J. M. 1995. Ecoregions: a spatial framework for environmental management. Pages 49–62 *in* W. S. Davis and T. P. Simon, editors. *Biological assessment and criteria: tools for water resource planning and decision making*. Lewis Publishers, Boca Raton, Florida.

#### Government reports

Reports that are issued on a regular basis are treated much like articles in journals (the principal difference being that page numbers should not be given); other reports are treated like books:

Everest, F. H., C. E. McLemore, and J. F. Ward. 1980. An improved tri-tube cryogenic gravel sampler. U.S. Forest Service Research Note PNW-350. [journal format]

USEPA (U.S. Environmental Protection Agency). 1998. Water quality criteria and standards plan: priorities for the future. USEPA, 822-R-98-003, Washington, D.C. [book format]

#### Electronic publications

References to books and reports should be formatted in the usual way even if they are only available online (or are available in print form but were accessed online):

Baldwin, N. A., R. W. Saalfeld, M. R. Dochoda, H. J. Buettner, and R. L. Eshenroder. 2000. Commercial fish production in the Great Lakes, 1867–1996. Great Lakes Fishery Commission, Ann Arbor, Michigan.

Uniform resource locator (URL) addresses may be given for sources that are difficult to locate, but they should be omitted otherwise.

If a journal is available in print form, authors should use the standard reference format even if they accessed the article online. If a journal is only available electronically, the format depends on the way(s) in which articles are designated. Two possible formats are as follows:

Gallagher, M. B., and S. S. Heppell. 2010. Essential habitat information for age-0 rockfish along the central Oregon coast. *Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science* [online serial] 2:60–72.

Kimmerer, W. J. 2004. Open-water processes of the San Francisco Estuary: from physical forcing to biological responses. *San Francisco Estuary and Watershed Science* [online serial] 2(1):article 1.

Note that digital object identifiers (DOIs) should only be included for articles still in press.

Databases should be cited as follows:

Pacific States Marine Fisheries Commission. 2015. PTAGIS (Columbia Basin PIT Tag Information System) [online database]. Pacific States Marine Fisheries Commission, Portland, Oregon. Available: [www.ptagis.org](http://www.ptagis.org).

The “author” should be the organization(s) that maintain(s) the database; if there are more than five such organizations, use the name of the database as the author.

The year should be the year in which the database was accessed. If additional information is necessary to enable readers to locate the exact source, it may be given in the text citation.

Software packages should be cited only in the text (see section 13.3 of the style guide).