Literature Pertaining to the Identification and Distribution of Aquatic Macroinvertebrates of the Western U.S. with Emphasis on Idaho

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INTRODUCTION

Following is a list of some of the major references concerning the taxonomy and distribution of western United States aquatic macroinvertebrates with emphasis on Idaho species. By checking the "Literature Cited" section in each of these references, the user will have the major citations needed to identify most aquatic macroinvertebrate species in Idaho. Some biological/ ecological publications are included because they provide information concerning the distribution or taxonomy of Idaho taxa.

To obtain the best use of this publication, be sure to check the references in the "General References" section. Normally, these general references are not repeated for each of the taxonomic groups that follow.

The purpose of this compilation is to give the reader references useful for the identification of macroinvertebrates and not to present a detailed listing of references to macroinvertebrate sampling methods. A few references to methods are included for the user's convenience.

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GENERAL REFERENCES

Taxonomy and Distribution

Chu, H.F. 1949. How to know the immature insects. Wm. C. Brown Co., Publ. Iowa. 243 pp.

Edmondson, W.T. (ed.). 1979. Freshwater biology (2nd ed.). John Wiley and Sons, N.Y. 1248 pp.
Comments: 1) Includes all groups of freshwater organisms from bacteria to insects; family, genus and species keys.
2) Taxonomic treatment of insects largely obsolete.

Gillespie, J.M. 1976. Insect associates of a northern Idaho farm pond, pp. 9-18, IN: W.F. Barr, ed. 50 year anniversary, Publication Department of Entomology, Univ. of Idaho, Dept. Entomol., Univ. ID, Moscow, ID.

Hart, D.S., and M.A. Brusven. 1976. Comparison of benthic insect communities in six small Idaho Batholith streams. Melanderia 23:1-39.

Hafele, R. and S. Roederer. 1987. An angler's guide to aquatic insects and their imitations. Johnson Books, Boulder, CO. 180 pp.
Comments: 1) Written for flyfishers by an entomologist.
2) Keys to the major groups of insects.
3) Pocket size.

Hornig, D.S., Jr., and W.F. Barr. 1970. Insects of Craters of the Moon National Monument. Misc. Ser. 8. Univ. ID, Coll. Agric., Moscow, ID. 118 pp.

Lehmkuhl, D.M. 1979. How to know the aquatic insects. Wm. C. Brown Co., Dubuque, IA. 168 pp.
Comments: 1) Spiral bound guide to families of aquatic insects.
2) Best introductory guide.

Lewis, P.A. 1972. References for the identification of freshwater macroinvertebrates. EPA-R4-72-006. U.S. EPA, Cincinnati, OH. 17 pp.
Comments: 1) List of major references prior to 1972.

McCaffrety, W.P. 1981. Aquatic entomology. Science Books, Boston, MA. 448 pp.
Comments: 1) Primarily for the serious fly fisherman.
2) Includes simplified keys and diagnostic and biological information on all aquatic and subaquatic families.

Merritt, R.W. and K.W. Cummins. (eds.). 1978. Aquatic Insects of North America. Kendall/Hunt Co., Dubuque, IA. 441 pp.
Comments: 1) Most keys are to family level, although additional keys for important Diptera families.
2) Includes functional feeding groups.

Merritt, R.W. and K.W. Cummins (eds.). 1984. An introduction to the aquatic insects of North America (2nd ed.). Kendall/Hunt Publ. Co., Dubuque, IA. 722 pp.
Comments: 1) Greatly expanded and improved. Comb bound.
2) Best single reference available.

Parrish, F.K. 1975. Keys to water quality indicative organisms of the southeastern United States (2nd ed.). U.S. EPA, Cincinnati, OH. 195 pp.
Comments: 1) Picture (illustrated) keys to aquatic plants and animals.

Pennak, R.W. 1978. Freshwater invertebrates of the United States. (Second ed.). John Wiley and Sons, NY. 803 pp.
Comments: 1) Has sections on insects and other arthopods not found in the 3rd edition.
2) Best single reference for all aquatic invertebrate groups.

Pennak, R.W. 1989. Freshwater invertebrates of the United States, Protozoa to Mollusca (3rd ed.). John Wiley and Sons, NY. 628 pp.

Petersen, A. 1962. Larvae of insects: An introduction to Nearctic species. Parts I & II. Edwards Brothers, Inc., Ann Arbor, MI. 315 pp. and 416 pp.
Comments: 1) Larvae of all insect groups covered.
2) General work, not intended to emphasize aquatics.

Schuh, R.T. (ed.). 1989. The Torre-Bueno Glossary of entomology. The New York Entomological Society and American Museum of Natural History. New York, NY. 840 pp.
Comments: 1) Revised edition of A Glossary of Entomology including Supplement A by George S. Tulloch.
2) Compiled by Stephen W. Nichols.

Stehr, F.W. (ed.) 1987. Immature insects. Vol. 1. Kendall/Hunt Co., Dubuque, IA. 754 pp.
Comments: 1) This volume includes the Collembola, Ephemeroptera, Odonata, Plecoptera, Trichoptera, and Lepidoptera.

Stehr, F.W. 1991. Immature insects. Vol. 2. Kendall/Hunt Co., Dubuque, IA. 975 pp.
Comments: 1) This volume includes the Hemiptera, Megaloptera, Neuroptera, Coleoptera, and Diptera.

Usinger, R.L. (ed.) 1956. Aquatic insects of California. Univ. California Press, Berkely, CA. 508 pp.
Comments: 1) Keys to genera of all North American insects and to species for many insects found in California.
2) Most useful (after Merritt and Cummins 1984).

Webb, D.W. (ed.). 1989. Current and selected bibliographies on benthic biology. North Amer. Benth. Soc., Champaign, IL. 82 pp.
Comments: 1) Published annually by the North American Benthological Society.
2) Covers macroinvertebrate groups plus other topics.
3) Best way available to keep up with the literature.
4) Available from: D.D. Herlong, Secretary, North American Benthological Society, Carolina Power & Light Co., Harris E & E Center, Rt. 1, Box 327, New Hill, NC 27562.

Macroinvertebrate Sampling Methods

American Publication Health Association. 1989. Benthic macroinvertebrates, pp. 10-95 to 10-113. IN: Standard methods for the examination of water and wastewater (17th ed.).

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ADDITIONS/CORRECTIONS

Please list any important literature that may have been missed or any errors you find below, and send to:

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