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A female Western Toad (Anaxyrus boreas) from Garibaldi Provincial Park, British Columbia, Canada. This large bufonid occurs throughout much of Western North America. The IUCN lists it as Near Threatened because it is probably in significant decline (> 30% over 10 years) due to disease. (Photographed by C. Kenneth Dodd).

Bibliography of the Anurans of the United States and Canada. Version 2, Updated and Covering the Period 1709 – 2012.

Monograph 7.

C. Kenneth Dodd, Jr.

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**BIBLIOGRAPHY OF THE ANURANS OF THE UNITED STATES AND CANADA.
VERSION 2, UPDATED AND COVERING THE PERIOD 1709 – 2012.**

MONOGRAPH 7.

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Preface to Version 2: An Expanded and Detailed Resource.

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Herpetological Conservation and Biology rarely accepts revisions of monographs unless those changes are substantial. In this case, Ken Dodd has expanded by almost a third, the already extensive bibliography published in 2013. Although few will likely cite this text, its value as a resource is exceptional. Many of the new citations, like those in the previous version, are difficult to find. Some are virtually impossible to find without a resource of this kind. Then, you might have difficulty finding the publication despite the now available citation. The untold years of work devoted to amassing this database will likely be unmatched. I know I will be using it in the future and I hope that our readership does too.

Preface to Version 1: A Searchable Data Base for Biogeography of North American Anurans

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Many of us can recall a time before the age of computers when it was necessary to search for specific herpetological literature by visiting a library and thumbing through many issues of *Biological Abstracts*, *Wildlife Review*, and *Zoological Record*. That was a laborious, time-consuming task with no guarantee of finding all pertinent publications available on a particular topic. Now, with the advent and ease of online search engines, practically any published citation can be found simply by stroking a keyboard. However, older references tend to be difficult to find or retrieve. And given the numerous composite literature online resources available at your fingertips, the job of obtaining key information by paging through any hard copy resource volume for subject material seems passé. In those previous days, however, printed bibliographies of any kind were considered treasure troves of vital information.

In this issue of *Herpetological Conservation and Biology* (HCB), we are very pleased to publish a true anthology of anuran bibliography for the United States and Canada by Ken Dodd. This remarkable compendium of literature spans over two centuries (1771 – 2012). Because of its unwieldy length (over 200 pages)—a size that well exceeds the practical limits of our standard copy-editing abilities—the Governing Board of HCB has chosen to set aside our normal editorial requirements (e.g., certain formatting rules) to make this significant document available to our readership.

So why publish a bibliography on a particular herpetological subject in *Herpetological Conservation and Biology*? There are many solid reasons to do this, but the primary one is to make available this valuable resource to our readership. As a downloaded PDF, researchers will be able to use standard search-engine options to gather specific information from it. That is a feature not available elsewhere. We extend a special thanks to Ken Dodd for selecting HCB as the outlet for this most useful resource.

***BIBLIOGRAPHY OF THE ANURANS OF THE UNITED STATES AND
CANADA. VERSION 2, UPDATED AND COVERING THE PERIOD
1709–2012***

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Abstract. — In 2013, I published an extensive bibliography (Dodd 2013a) of the anurans of the United States and Canada based largely upon background material from *The Frogs of the United States and Canada* (Dodd 2013b). The bibliography was produced with the objective of developing a comprehensive reference to publications on the natural history of North American anurans. It focused on life history, ecology, systematics, behavior, physiological ecology, diseases, parasites, and conservation biology, and included important references on distribution and other topics useful to understanding frogs in their natural environment. Strictly physiological, developmental, and genetics citations were excluded, as were routine new distribution records, especially when life history information was not included. Master's and doctoral dissertations were included as they were encountered, but I made no attempt to access all potentially citable graduate research, much of which remains unpublished or unavailable. I also excluded what is popularly termed "gray" literature, as well as most popular and hobbyist publications.

Since the original bibliography (Dodd 2013a), I have made an effort to update references previously omitted because of redundancy, triviality (short notes, especially in the early days of *Copeia* and *Herpetologica*), oversight, or because they were published before the end of 2012 but after my frog book had gone to press. I also examined much older and obscure natural histories for references to frogs. As such, I extended the bibliographic references to Lawson's (1709) mention of the bullfrog, the earliest reference to a specific species that I encountered. Frogs were often mentioned in early travelogues, but rarely can the species be identified. As previously, I have limited the scope of this updated bibliography to topics that might be termed field ecology or natural history, but that does not mean that highly complex topics, such as molecular biology, population modelling, and laboratory research are excluded; they are all vital to telling us what frogs do in nature and how they do it. Publishing this updated and comprehensive bibliography online allows researchers, students, and naturalists access to a large amount of information that might not be readily available through traditional database searches. Although the bibliography is not annotated, it can be downloaded and searched using key words relating to species and topics. Naturally, some publications likely have escaped my notice, despite years of intensive search and cross-referencing. To those authors, I offer my sincere apology.

Key Words. — *Amphibia, Anura, bibliography, frogs, toads, herpetology*

COMPOSITE BIBLIOGRAPHIC TRIVIA

Journals.— The most cited journals involving frog natural history, not surprisingly, are those that have been publishing the longest and that specialize in herpetology: *Copeia* (661), *Herpetological Review* (461), *Herpetologica* (288), and the *Journal of Herpetology* (274). Other journals with substantial numbers of North American frog papers include *Ecology* (162), *American Midland Naturalist* (115), *Canadian Journal of Zoology* (99), *Oecologia* (93), *Evolution* (94),

Southwestern Naturalist (89) and *Animal Behaviour* (88).

Graduate research.— The combined bibliography contains citations for 191 doctoral dissertations and 226 Master's/Honors theses.

Most published authors.— Of course, most herpetologists are interested in taxa besides toads; few specialize only on frogs. Further, not all citations are of equivalent page length, duration of study, rigor or importance. Given these caveats, the top 10 names in terms of

numbers of authored and co-authored papers involving the life history of frogs are: A.N. Bragg (93), A.R. Blaustein (90), R.D. Semlitsch (72), H.C. Gerhardt (70), S.E. Trauth (59), R. Relyea (57), P.S. Corn (55), B.K. Sullivan (53), D.M. Green (44), and M.P. Hayes (41). With the exception of Bragg (d. 1968) and Semlitsch (d. 2015), these biologists are still active in frog research.

Number of publications annually.— Not surprisingly, there has been an explosion in publishing on North American anuran life history since the early 1990s. For example, there were 78–90 papers published annually from 1990–1994, 101–112 from 1995–1997, 140–171 from 1998–2003, and 183–217 from 2004–2012. No doubt, this pace has continued to accelerate.

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- Footnotes.** —
- * This publication is variously cited as 1981 or 1982. Vol. 60 was published in 1981, although issue 12 did not appear until January 1982. The online journal is dated 1981, but the reprints are dated 1982.
- ** Dated 1929, but published 1930.
- *** Dated 1866 but published in 1867. The date attributed to newly described species is thus 1867. Also see Cope (1877).
- ± W.C. Brown's name was apparently omitted as a junior author. He appears as such in the table of contents.
- # The amphibian sections of this monograph were actually written by Crystal Thompson and Helen Thompson.
- Identical text.** —The following papers are identical in content and must have been mistakenly printed twice:
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The Southern Leopard Frog (Lithobates sphenoccephalus) is a common anuran throughout the southeastern United States and Canada. (Photograph by C. Kenneth Dodd).