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# Invasive Mussel Literature Resource

**Science and Technology Program  
Research and Development Office  
Final Report No. ST-2021-19138-01  
EcoLab-FA993-2021-03**



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# **Invasive Mussel Literature Resource**

**Final Report No. ST-2021-19138-01**

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# **Peer Review**

**Bureau of Reclamation  
Research and Development Office  
Science and Technology Program**

Final Report ST-2021-19138-01

**Invasive Mussel Literature Resource**

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# **Acronyms and Abbreviations**

Reclamation      Bureau of Reclamation

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## **Executive Summary**

A large and growing body of literature has been generated regarding invasive dreissenid (quagga and zebra) mussels since they were first detected in the Great Lakes over 30 years ago. Given the impact of invasive mussels in the Lower Colorado River, and the continuing threat of their introduction and spread in other regions, access to relevant scientific results and other literature is critical for Reclamation operations and planning. Assessment of previous work on dreissenids can highlight what has, and has not, already been learned, and can help to avoid potentially costly duplication of effort. Because literature on invasive mussels is dispersed, much of it in reports, theses, presentations, and other documents outside the peer-reviewed literature, relevant information may escape the attention of Reclamation researchers and managers. A previous project funded by Reclamation's Science and Technology Program aggregated a wide variety of invasive mussel literature into a central repository where it was organized and made accessible. The current project has built upon this previous effort, surveying and incorporating newly published or available literature to maintain the relevance and utility of this resource.

# Main Report

## Methods

Literature on dreissenid mussel control was drawn from a wide variety of sources, including search engines, literature databases, and professional social networking tools, such as Google Scholar ([scholar.google.com](http://scholar.google.com)), CiteSeerX ([citeseer.ist.psu.edu](http://citeseer.ist.psu.edu)), and ResearchGate ([www.researchgate.net](http://www.researchgate.net)). Reports and theses were also obtained from institutional and academic websites, and online databases. Because a substantial portion of the research on mussel control has not been published in peer-reviewed journals or books, this study also incorporated technical reports, theses, conference proceedings, and presentations, to provide the broadest possible survey of relevant work.

This study focused on literature for which full-text PDFs, and other source documents, could be obtained, so that methods and results could be directly evaluated. All literature was organized using the open-source reference management software Zotero ([www.zotero.org](http://www.zotero.org)). Each reference was added to the Zotero library as a separate item. Items were annotated with source data to facilitate citation and generation of bibliographies. Relevant keyword tags were added to each item to aid in identification of items of interest based on subject area. PDFs or other source documents were attached to each item as available.

For Reclamation operations, the quagga mussel (*Dreissena rostriformis bugensis*) is the primary species of concern. However, the majority of literature to date has focused on the zebra mussel (*Dreissena polymorpha*), due to its earlier appearance in North America and its broader geographic spread in the United States. Therefore, literature on both species was collected and included in the Zotero library.

## Results, Conclusions and Future Prospects

In this project the Zotero library for invasive mussel literature has been increased from 390 entries from the previous project (documented in Final Report ST-2018-1868-01; [www.usbr.gov/research/projects/detail.cfm?id=1868](http://www.usbr.gov/research/projects/detail.cfm?id=1868)) to a total of 658 entries in the current project. Topics covered by literature in this collection include the introduction and spread of zebra and quagga mussels, physiology, habitat suitability, economic and ecological impacts, detection and monitoring methods, molecular biology and genomics, response strategies following initial detection of mussels, control techniques, and ecotoxicology.

The Zotero library generated for this project is searchable, allowing identification of literature relevant to topics of interest. Identification of relevant items is further aided by the inclusion of 271 unique tags, which can be used to rapidly identify items of interest related to a given topic. PDFs and other source documents are attached to nearly all references included in the library. The generated library and associated document files have been exported into a variety of library file

formats, including BibTex, EndNote XML, RIS, Zotero RDF. These exported libraries allow importation into reference management software programs including Mendeley ([www.mendeley.com](http://www.mendeley.com)), Zotero ([www.zotero.org](http://www.zotero.org)), ReadCube ([www.readcube.com](http://www.readcube.com)), and EndNote ([endnote.com](http://endnote.com)), among others. All these programs support direct citation of references and generation of bibliographies within Microsoft Word, greatly simplifying the inclusion of references within reports, manuscripts, and other documents.

All reference included in the literature library are listed in the References section below. This final report and the exported reference libraries have been added to the Reclamation Information Sharing Environment (RISE; [data.usbr.gov](http://data.usbr.gov)) under Catalog ID 4511. Project data have also been added to the Technical Service Center's Science and Technology shared drive folder (Z:\DO\TSC\Jobs\DO\\_NonFeature\Science and Technology).

It is expected that the reference library generated in this project will continue to be a valuable resource for Bureau of Reclamation researchers and managers interested in variety of topics regarding invasive dreissenid mussels. Maintaining and updating this resource will be important to ensuring its ongoing utility for researcher and managers. Looking forward, the Ecological Research Laboratory plans to continue development of this literature library as a regular part of ongoing operations in invasive mussel early detection, monitoring, and control.

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