

# Metadata

Field	Value
<b>Dataset Name</b>	Devils Lake – Red River Basin Fish Parasite and Pathogen Project Qualitative Risk Assessment
<b>Dataset General Type</b>	Devils Lake - Red River Basin
<b>Dataset Type</b>	Dataset
<b>Dataset Level</b>	
<b>Program Website</b>	
<b>Keyword Vocabulary</b>	Polar Data Catalogue
<b>Keyword Vocabulary URL</b>	<a href="https://www.polardata.ca/pdcinput/public/keywordlibrary">https://www.polardata.ca/pdcinput/public/keywordlibrary</a>
<b>Theme</b>	
<b>Title</b>	Freshwater
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/en/group/freshwater">https://canwin-datahub.ad.umanitoba.ca/data/en/group/freshwater</a>
<b>Title</b>	Lakes
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/en/group/lakes">https://canwin-datahub.ad.umanitoba.ca/data/en/group/lakes</a>
<b>Title</b>	Marine Habitats
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/en/group/marine-habitats">https://canwin-datahub.ad.umanitoba.ca/data/en/group/marine-habitats</a>
<b>Dataset Status</b>	Complete

Field	Value
<b>Maintenance and Update Frequency</b>	Not planned
<b>Dataset Last Revision Date</b>	2014-12-05
<b>Dataset DOI</b>	10.5203/0zsn-0204
<b>Metadata Creation Date</b>	2026
<b>Publisher</b>	CanWIN
<b>Dataset Authors</b>	
<b>Dataset Authors 1</b>	
<b>Name</b>	Ramlal, Patricia
<b>Type of Name</b>	Organizational
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<b>Contributors</b>	
<b>Project Data Curator</b>	Ramlal, Patricia

Field	Value
<b>Project Data Curator email</b>	<a href="mailto:Patricia.Ramlal@dfo-mpo.gc.ca">Patricia.Ramlal@dfo-mpo.gc.ca</a>
<b>Project Data Curator Affiliation</b>	Fisheries and Oceans Canada
<b>Dataset Collection Start Date</b>	2014-12-05
<b>Dataset Collection End Date</b>	
<b>Sample Collection</b>	
<b>Activity Collection Type</b>	
<b>Preferred citation</b>	
<b>Analytical Instrument</b>	
<b>Analytical Method</b>	
<b>Licence Name or Copyright Statement</b>	Creative Commons Attribution 4.0 International
<b>Copyright Statement</b>	
<b>Licence Type</b>	Open
<b>Embargo Date</b>	
<b>Licence URL</b>	<a href="https://spdx.org/licenses">https://spdx.org/licenses</a>

Field	Value
<b>Terms of Access</b>	<p>CanWIN datasets are licensed individually, however most are licensed under the Creative Commons Attribution 4.0 International (CC BY 4.0) Public License. Details for the licence applied can be found using the Licence URL link provided with each dataset. By using data and information provided on this site you accept the terms and conditions of the License. Unless otherwise specified, the license grants the rights to the public to use and share the data and results derived therefrom as long as the proper acknowledgment is given to the data licensor (citation), that any alteration to the data is clearly indicated, and that a link to the original data and the license is made available.</p>
<b>Terms of Use</b>	<p>By accessing this data you agree to [CanWIN's Terms of Use](/data/publication/canwin-data-statement/resource/5b942a87-ef4e-466e-8319-f588844e89c0).</p>
<b>Awards</b>	
<b>Related Resources</b>	
<b>Publications</b>	
<b>Spatial regions</b>	
<b>Spatial extent West Bound Longitude</b>	
<b>Spatial extent East Bound Longitude</b>	
<b>Spatial extent South Bound Latitude</b>	
<b>Spatial extent North Bound Latitude</b>	

# Data and Resources

Field	Value
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/e5356df5-5f38-4fbc-bdc7-465c7511fab8/download/rrdevilslakephase2appendixfishdata.xls">https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/e5356df5-5f38-4fbc-bdc7-465c7511fab8/download/rrdevilslakephase2appendixfishdata.xls</a>
<b>Name</b>	Devils Lake and Red River Fish Data - Phase 2 Appendix
<b>Description</b>	Excel spreadsheet for phase 2 appendix fish data.
<b>Format</b>	XLS
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/99c2c744-9400-4672-930b-ebd82765aad3/download/rrdevilslakephase2appendixfooddata.xls">https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/99c2c744-9400-4672-930b-ebd82765aad3/download/rrdevilslakephase2appendixfooddata.xls</a>
<b>Name</b>	Devils Lake and Red River Food Data - Phase 2 Appendix
<b>Description</b>	Excel spreadsheet for phase 2 appendix food data.
<b>Format</b>	XLSX
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/87608767-b2b0-41ca-8a48-082acd6236f9/download/rrdevilslakephase2appendixparasitedata.xls">https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/87608767-b2b0-41ca-8a48-082acd6236f9/download/rrdevilslakephase2appendixparasitedata.xls</a>
<b>Name</b>	Devils Lake and Red River Parasite Data - Phase 2 Appendix

Field	Value
<b>Description</b>	Excel spreadsheet for phase 2 appendix parasite data.
<b>Format</b>	XLS
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/c28281f9-a04e-4212-8fb3-75be40e2fbdf/download/rrdevilslakephase3appendicesfishdata.csv">https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/c28281f9-a04e-4212-8fb3-75be40e2fbdf/download/rrdevilslakephase3appendicesfishdata.csv</a>
<b>Name</b>	Devils Lake and Red River Fish Data - Phase 3 Appendix
<b>Description</b>	Comma delimited (CSV) file containing phase 3 fish data.
<b>Format</b>	CSV
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/dc8e48a9-13d0-49f1-accb-8a764258515a/download/rrdevilslakephase3appendicesfooddata.xls">https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/dc8e48a9-13d0-49f1-accb-8a764258515a/download/rrdevilslakephase3appendicesfooddata.xls</a>
<b>Name</b>	Devils Lake and Red River Food Data - Phase 3 Appendix
<b>Description</b>	Excel spreadsheet (.xls) containing phase 3 appendix food data.
<b>Format</b>	XLS
<b>Resource Category</b>	data

Field	Value
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/a330c70f-1a88-40ca-866f-cce0b868838c/download/rrdevilslakephase3appendicesparasitedata.xls">https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/a330c70f-1a88-40ca-866f-cce0b868838c/download/rrdevilslakephase3appendicesparasitedata.xls</a>
<b>Name</b>	Devils Lake and Red River Parasite Data - Phase 3 Appendix
<b>Description</b>	Excel spreadsheet (.xls) containing phase 3 appendix parasite data.
<b>Format</b>	XLS
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/a3da5a6c-6c0a-4cf2-8a72-122dbda55403/download/rrdevilslakerectophase3appendix.xls">https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/a3da5a6c-6c0a-4cf2-8a72-122dbda55403/download/rrdevilslakerectophase3appendix.xls</a>
<b>Name</b>	Devils Lake and Red River Ectoparasite Data - Phase 3 Appendix
<b>Description</b>	Excel spreadsheet (.xls) containing phase 3 appendix ectoparasite data.
<b>Format</b>	XLS
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/eb5ea2e3-7c55-4026-9f83-4a7de4bcfd32/download/may22report1devillakefishparasitestudyandappendices2006.pdf">https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/eb5ea2e3-7c55-4026-9f83-4a7de4bcfd32/download/may22report1devillakefishparasitestudyandappendices2006.pdf</a>
<b>Name</b>	Red River Delta Fish Parasite Results - 2006

Field	Value
<b>Description</b>	<p>Twenty-six species of parasites were recovered from nine species of fish hosts. A summary of results shows: 1. To date none of the fish parasites identified as potential pathogens to Lake Winnipeg fish by Williamson et al (2005) have been found in the Red River delta fish samples; 2. Two new parasite species know to be pathogenic in fish were discovered in the samples i e. Bothriocephalus acheilognathi and Sanginicola occidentalis; 3. The time of invasion by these two parasite species into The Hudson Bay drainage is unknown; 4. Bothriocephalus acheilognathi was widely distributed being present in six species of fish and found in the south and north basins of Lake Winnipeg. 5. Bothriocephalus acheilognathi most frequently infected (prevalence of 74%) the cyprinid fish host, Notropis atherinoides ( Emerald shiner). 6. Bothriocephalus acheilognathi was found exclusively in young of the year emerald shiners. 7. Bothriocephalus acheilognathi was recovered from the intestine of older and and larger pike (Esox lucius), walleye (Sander vitreum), sauger (Sander canadensis) white bass (Merone chrysops), goldeye (Hiodon alosoides). 7. The Myxozoan occurred on the gills of emerald shiner, occasionally causing severe pathology.</p>
<b>Format</b>	PDF
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/436ab9e0-4350-46d5-a614-818989f43ef0/download/may22rr-fish-parasite-appendices-may-22-07.xls">https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/436ab9e0-4350-46d5-a614-818989f43ef0/download/may22rr-fish-parasite-appendices-may-22-07.xls</a>
<b>Name</b>	Red River Parasite Data - 2007
<b>Description</b>	Excel spreadsheet containing Red River parasite data from March 2007.
<b>Format</b>	XLS
<b>Resource Category</b>	data

Field	Value
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/d89cf3af-fb81-4241-a79b-45b2616fabad/download/may22rr-fish-parasite-appendices-may-22-07.xls">https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/d89cf3af-fb81-4241-a79b-45b2616fabad/download/may22rr-fish-parasite-appendices-may-22-07.xls</a>
<b>Name</b>	Red River Parasite Data Appendix - 2007
<b>Description</b>	Excel spreadsheet (.xls) containing appendix for Red River parasite data in 2007 showing fish data, food data, parasite data and individual fish data for: Brook stickleback, Emerald shiner, Fathead minnow, Goldeye, Northern Pike, Sauger, Walleye, White bass, and Yellow perch.
<b>Format</b>	XLS
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/ee1d0381-ab55-4a74-9594-dd534864b438/download/devilslakefishparasitepathogenriskreport8.pdf">https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/ee1d0381-ab55-4a74-9594-dd534864b438/download/devilslakefishparasitepathogenriskreport8.pdf</a>
<b>Name</b>	Devils Lake and Red River Basin Fish Parasite and Pathogen Final Project
<b>Description</b>	Final report October 2011.
<b>Format</b>	PDF
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/7e9dd619-0d40-4cfd-be92-11f2b4a51b30/download/rrdevils-lake-20111.xls">https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/7e9dd619-0d40-4cfd-be92-11f2b4a51b30/download/rrdevils-lake-20111.xls</a>

Field	Value
<b>Name</b>	Devils Lake and Red River Parasite Data - 2011
<b>Description</b>	Excel spreadsheet (.xls) containing parasite data for 2011.
<b>Format</b>	XLS
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/490f1ef4-ccdc-4c9f-a264-1a32f62b4001/download/rr-devils-lake-2011.pdf">https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/490f1ef4-ccdc-4c9f-a264-1a32f62b4001/download/rr-devils-lake-2011.pdf</a>
<b>Name</b>	Devils Lake and Red River Parasite Data - 2011
<b>Description</b>	PDF document containing parasite data for 2011.
<b>Format</b>	PDF
<b>Resource Category</b>	data
<b>URL</b>	<a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/d45dd050-ced2-40c2-afc8-218ea5a53510/download/devilslakemap.pdf">https://canwin-datahub.ad.umanitoba.ca/data/dataset/a2dfd33e-52ca-4bd6-b7b4-bbe563f97f0c/resource/d45dd050-ced2-40c2-afc8-218ea5a53510/download/devilslakemap.pdf</a>
<b>Name</b>	Map of location for Devils Lake and Red River - Phase 2 and 3
<b>Description</b>	
<b>Format</b>	PDF
<b>Resource Category</b>	data