

Freshwater Mussels of Nova Scotia

By Derek S. Davis



Curatorial Report 98

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**Nova Scotia Museum
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Curatorial Reports

The Curatorial Reports of the Nova Scotia Museum make technical information on museum collections, programs, procedures and research accessible to interested readers.

This report contains the preliminary results of an on-going research program of the Museum. It may be cited in publications, but its manuscript status should be clearly noted.

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Executive Summary

Archival institutions such as Museums of Natural History are repositories for important records of elements of natural history landscapes over a geographic range and over time.

The Mollusca collection of the Nova Scotia Museum is one example of where early (19th century) provincial collections have been documented and supplemented by further work over the following 143 years. Contemporary field investigations by the Nova Scotia Museum and agencies such as the Nova Scotia Department of Natural Resources have allowed for a systematic documentation of the distribution of a selected group, the freshwater mussels, in large portions of the province.

Although this group comprises only 10 extant and one regionally-extirpated species, these collections represent important species which have been recognized as sensitive indicators of environmental modification as well as larger scale climatic change.

A consolidation of these data (1083 specimen lots), including 164 collections from other North American and European sites allows a clear definition of baseline distributions, primarily in the 20th and beginning of the 21st century. The report summarizes collection data in the form of species accounts, supplemented by distribution maps, as well as specific biological information (in a Nova Scotia context) including the requirement for a fish host during early development; a further limitation on their ability to expand ranges.

A selected suite of data fields for each documented collection of freshwater mussels in the Collection of the Nova Scotia Museum is appended.

Recommendations are made for future work.

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Introduction

Museums of Natural History are custodians of collections of specimens of animals, plants, rocks, minerals and fossils that constitute our natural heritage. Most nations have such museums, usually located in the national capitals, but provinces, states, towns and smaller communities as well as private institutions and individuals also recognize the importance of such natural history collections. In Europe, beginning in the 17th century, collections were maintained privately and kept in order as “cabinets of curiosity”. With the recognition of the research and educational values of collections and the escalation of exploration and scientific enquiry into the natural world, new scales of management were developed. The adoption of systematics, especially that initiated by Carl Linnaeus (1758), stimulated the collection and description of species, the exchange and publication of new species, and concurrently, the growth of museum collections. As such collections grew in size and number, the physical order of specimens was augmented by accession records, card catalogues and subsequently computer-based catalogues. Over more than 400 years museums have become institutions that are valued by their communities as a source of knowledge and inspiration in science, literature, design, education and enterprise.

The Nova Scotia Museum (NSM) originated as the Nova Scotia Provincial Museum in the 1860's and was established under an Act of the Provincial Legislature (October 1868). It has, since, evolved into a public institution with nationally significant collections that are representative of the geological and biological elements of Nova Scotia and its surrounding waters. The Museum has been able to apply its information resources and expertise to work with several other agencies in the preparation of major overview documents such as *The Natural History of Nova Scotia* (Davis and Browne, 1996a & b) which currently provide a context for the presentation of its collection-based natural history information.

This report deals, particularly, with the collection of freshwater mussels, one component of the zoological collections of the Museum. This collection has become more accessible for public use through new data-based tools such as the Museum Information Management System (MIMS).

Freshwater mussels are bivalve molluscs (Figure 1) and as such have characteristics common with marine species such as the quahog, oyster and blue mussel. The Mollusca also includes the Gastropoda which are largely snail-like, the Cephalopoda, which are squids and octopuses, and several other specialized groups.

Freshwater mussels are a group of invertebrate animals that is familiar to most people who enjoy recreational activities on lakes and streams. However, most people are unable to distinguish the eleven species (Table 1) that occur in the Atlantic provinces of Canada (a small representation of the nearly 300 species that are found in continental North America). In the current study, the native freshwater mussels (Order Unionacea) are of direct concern. Eleven species have been recorded for New Brunswick and Nova Scotia, most from the mainland. Only two species, *Margaritifera margaritifera* and *Pyganodon cataracta* have been reported for Prince Edward Island.

Mussels require clean, well-oxygenated water and are very sensitive to environmental stress. Their historic distribution and current status are of importance to both short term and long term environmental monitoring. Freshwater mussels are considered to be one of the most vulnerable groups of freshwater organisms in North America (Metcalf-Smith and Cudmore-Vokey, 2004). This is partly due to their peculiar ecological relationship with fish. In order to reproduce, most freshwater mussels (including all Nova Scotia species) have an essential parasitic relationship with freshwater and anadromous fish. The fish carry the larvae of the mussels during the early stages of their development (Figure 2) and thus partially control their patterns of distribution. The known fish hosts and their mussel parasites for Atlantic Canada are summarised in Table 2.

Freshwater mussels were first documented in Nova Scotia by J.R. Willis (1863) and by J.M. Jones (1877) but specimens were not collected for the museum until 1895 when H. Piers, acquired the Eastern elliptio (*Elliptio complanata*). Further individual lots of specimens were acquired in 1902, 1921 and 1923, but it was in the 1940's when systematic collecting began. H.D. Athearn embarked upon several seasons of mussel surveys of Nova Scotia and New Brunswick (1946-48, 1951, 1954) and in 1950, D. Livingstone made some collections in connection with his studies of freshwater fish of Nova Scotia (Livingstone, 1951). Sampling was continued by A.H. Clarke and A. Meachem Rick of the National Museum of Canada (Athearn and Clarke, 1962; Clarke and Meachem Rick, 1963). The Museum's collection developed significantly as a result of these studies. Some specimens sent on loan to the Museum of Zoology at the University of Michigan in the 1960s are, currently, retained in that collection. Clarke (1981), an essential Canadian reference, includes the freshwater mussels of Atlantic Canada.

Miscellaneous collections were made by Museum staff in the following years. The relocation of the Museum to new quarters in 1970 provided better facilities for the development of collections, as well as full-time curatorial staff. During the next 25 years field research and collecting were carried out by the author and colleagues. This was to confirm the persistence of species previously documented and to provide more records particularly for areas of interest (e.g. in support of the programs such as Special Place Protection Act). Many new locality records were made and the general understanding of the freshwater mussels of Nova Scotia proposed by Athearn and Clarke (1962) and Clarke and Meachem Rick (1963) was supported. Several NSM Curatorial Reports summarised freshwater mussel occurrences (Grigg, 1972 and Davis, 1985) and attention was drawn to some rarer species (Isnor, 1981).

In the mid 1990's the Government of Canada in partnership with Provinces and Territories began to address the national and international concern for the maintenance of the world's biodiversity. One result of this was the Accord for the Protection of Species at Risk (1996). Freshwater mussels are included in *Wild Species 2005* and the status of a species is assessed by a species specialist sub-committee of the Committee on the Status of Endangered Wildlife in Canada ((COSEWIC) 2005). Species are prioritised annually and candidates for detailed assessment selected (Metcalf-Smith and Cudmore-Vokey, 2004). The NSM provides information from its collection resources in support of such initiatives.

Figure 1. Shell valves of the Eastern Elliptio, *Elliptio complanata*, showing terminology used for main features of the shell. Adult, slightly reduced in size.

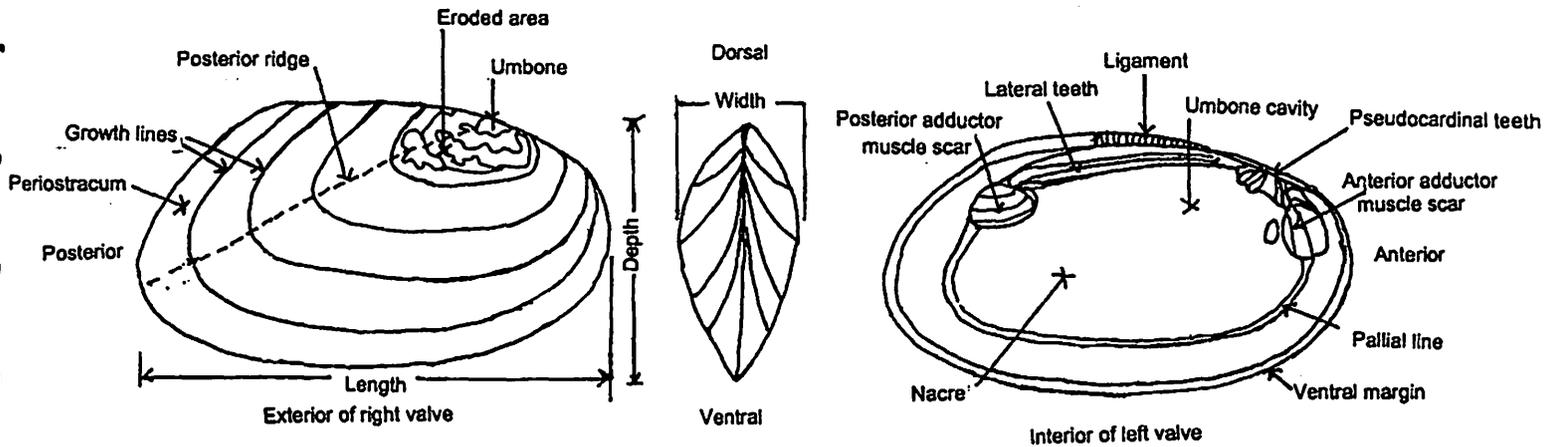


Figure 2. A typical Unionid life history as illustrate by the Eastern lampmussel (1), *Lampsilis radiata*. After Clarke (1981), Nedeau et al (2000) and Wiles (1975).

(2) White perch, *Morone americana*, is attracted to the exhalent siphon of the female mussel where glochidia are being released.

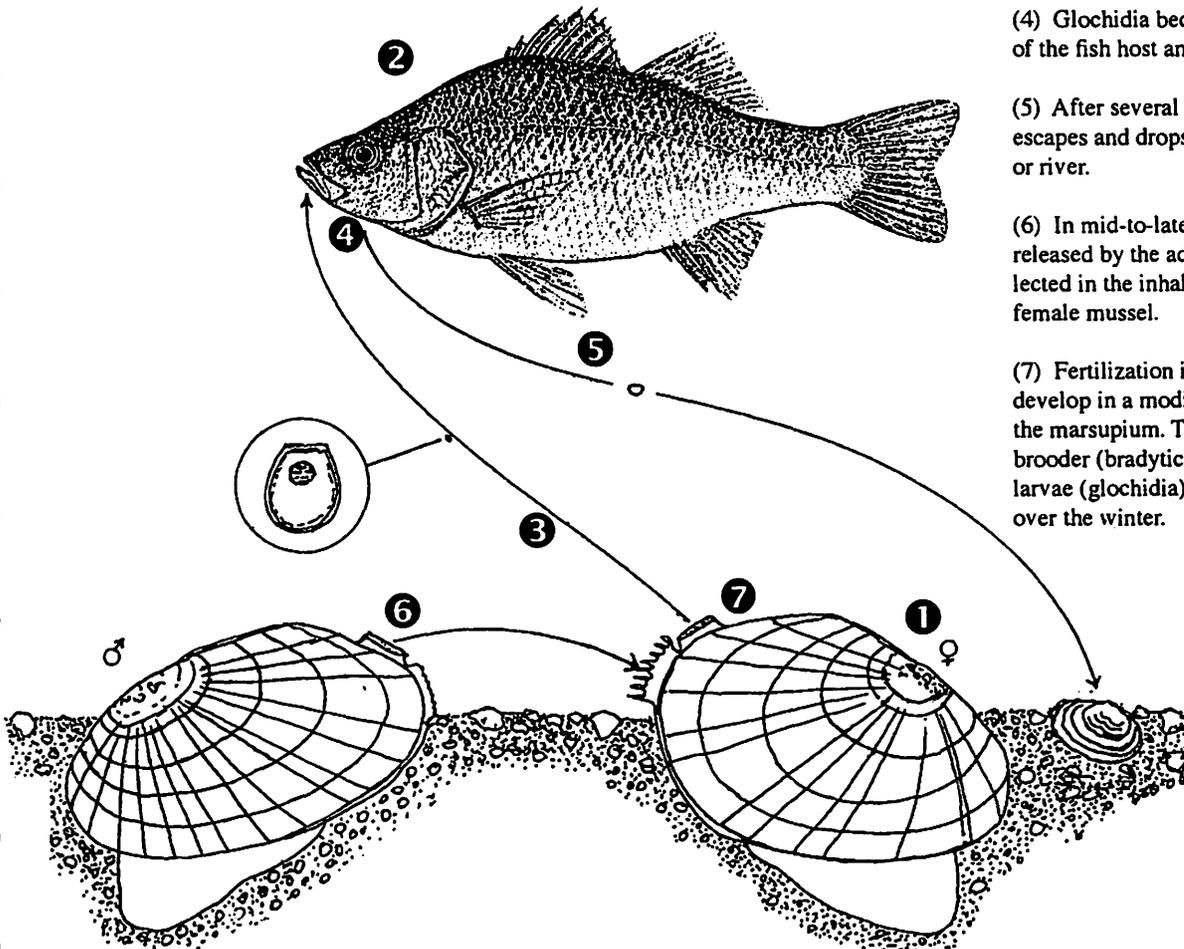
(3) Glochidia are released in large numbers in the early summer. Each bivalve shell has a length of about 0.25mm.

(4) Glochidia become embedded in the gills of the fish host and assume a parasitic life.

(5) After several months the young mussel escapes and drops to the bottom of the lake or river.

(6) In mid-to-late summer spermatozoa are released by the adult male mussel and collected in the inhalant siphon water flow of the female mussel.

(7) Fertilization is internal and the embryos develop in a modified area of the gills, called the marsupium. This species is a long-term brooder (bradyctictic) and the developing larvae (glochidia) are retained by the female over the winter.



There is concern for the future survival of freshwater mussels in Atlantic Canada in view of the severe impact of introduced Zebra and Quagga mussels in the Great Lakes region.

COSEWIC recognized the vulnerable nature of freshwater mussels globally and in Canada, and embarked upon assessments of the species in Canada. Nova Scotia is a partner in this process.

The Nova Scotia Department of Natural Resources (NSDNR) initiated extensive field studies of the distribution of native freshwater mussels in Nova Scotia through several of its Regional Offices. This survey program was comprehensive for Cape Breton Island, Northern, Eastern and Central Nova Scotia, but did not address portions of Southern and Western Nova Scotia where work still needs to be done. An overview report on the project has been published (Lockett, 2001).

The NSM is a partner in these studies and has provided training and advice, and has incorporated the resulting collections into the Provincial collection. A full list of the freshwater mussels held at the Museum is provided in this report.

The collection resource is managed to support research and education and has particular value to the understanding of climate change, support of the environmental assessment process as well as to the systematics and ecology of mussel species and their conservation status.

This Curatorial Report provides an introduction to the freshwater mussels of Nova Scotia and an interpretation of the information available in published literature and the collection of the Nova Scotia Museum. Although descriptive information is provided the report is not intended to be a field identification manual.

Table 1. Classification of Freshwater Mussels and Clams of Atlantic Canada from Turgeon *et al.* (1998) with amendments as per Clarke (1981), Burch (1975a & 1975b), and Metcalfe-Smith and Cudmore-Vokey 2004.

Class Bivalvia		
Order Unionoida		Freshwater mussels
Family Margaritiferidae		
	<i>Margaritifera margaritifera</i> (Linnaeus, 1758)	Eastern pearlshell
Family Unionidae		
Subfamily Ambleminae		
	<i>Elliptio complanata</i> (Lightfoot, 1786)	Eastern elliptio
Subfamily Anodontinae		
	<i>Alasmidonta varicosa</i> (Lamarck, 1819)	Brook floater
	<i>Alasmidonta undulata</i> (Say, 1817)	Triangle floater
	<i>Alasmidonta heterodon</i> (I. Lea, 1830)	Dwarf wedgemussel
	<i>Strophitus undulatus</i> (Say, 1817)	Creeper
	<i>Pyganodon cataracta</i> (Say, 1817)	Eastern floater
	<i>Pyganodon fragilis</i> (Lamarck, 1819)	Newfoundland floater
	<i>Anodonta implicata</i> Say, 1829	Alewife floater
Subfamily Lampsilinae		
	<i>Lampsilis cariosa</i> (Say, 1817)	Yellow lamp mussel
	<i>Lampsilis radiata</i> (Gmelin, 1791)	Eastern lampmussel
	<i>Leptodea ochracea</i> (Say, 1817)	Tidewater mucket
Order Veneroida ¹		
Family Dreissenidae (invasive, not presently in Atlantic Canada)		
	<i>Dreissena bugensis</i> Andrusov, 1897	Quagga mussel
	<i>Dreissena polymorpha</i> (Pallas, 1771)	Zebra mussel
Family Corbiculidae (invasive, not presently in Atlantic Canada)		
	<i>Corbicula fluminea</i> (Muller, 1774)	
Family Sphaeriidae		
	<i>Pisidium</i> 11 species	Pea clams, Pill clams
	<i>Sphaerium</i> 2 species	Fingernail clams
	<i>Musculium</i> 3 species	Fingernail clams

¹ Species listed for the Order Veneroida: families Dreissenidae and Corbiculidae are well known invasive species in North America and elsewhere but have not yet been reported in Atlantic Canada. The family Sphaeriidae is a common native family including at least 16 species in Atlantic Canada. The genera *Sphaerium*, *Musculium* and *Pisidium* are well represented in Museum collections but have not been thoroughly studied in Atlantic Canada and are not included in the present study.

Table 2. Known fish hosts of larval stages (glochidia) of Unionacean mussels within the Maritime Provinces of Canada. (From Clarke 1981, Davis, White and McAlpine 2003, Hanson and Locke 2000, Nedeau et al 2000 and Wiles 1975)

		Mm	Ec	Ah	Au	Av	Pc	Ai	Su	Lo	Lc	Lr
Blueback herring <i>Alosa aestivalis</i>	A							X				
Gaspereau (Alewife) <i>Alosa pseudoharengus</i>	A							X		X		
American shad <i>Alosa sapidissima</i>	A							X				
Atlantic salmon <i>Salmo salar</i>	A	X		X								
Brown trout <i>Salmo trutta</i>	I	X										
Brook trout <i>Salvelinus fontinalis</i>	F	X										
Golden shiner <i>Notemigonus crysoleucas</i>	F					X			X			
Common shiner <i>Notropis cornutus</i>	F				X				X			
Blacknose dace <i>Rhinichthys atratulus</i>	F				X	X						
White sucker <i>Catostomus commersonii</i>	F				X		X					
Banded killifish <i>Fundulus diaphanus</i>	F		X									
Three-spined stickleback <i>Gasterosteus aculeatus</i>	F						X					
White perch <i>Morone americana</i>	F										X	X
Smallmouth bass <i>Mircopterus dolomieu</i>	I											X
Yellow perch <i>Perca flavescens</i>	F	X		X		X			X		X	

Mm - *Margaritifera margaritifera*

Ec - *Elliptio complanata*

Ah - *Alasmidonta heterodon*

Av - *Alasmidonta varicosa*

Pc - *Pyganodon cataracta*

Au - *Alasmidonta undulata*

Ai - *Anodonta implicata*

Su - *Strophitus undulatus*

Lo - *Lampsilis ochracea*

Lc - *Lampsilis cariosa*

Lr - *Lampsilis radiata*

A- Anadromous

F- Freshwater

I - Introduced

The Status of Nova Scotia Freshwater Mussel Populations

Distribution maps based on surveys and opportunistic collecting over a period of more than 60 years do not reflect current status of the populations of mussel species. However, they do provide baseline information for studies of populations and changes in patterns of distribution.

The *National General Status Assessment of Freshwater Mussels (Unionacea)* (Metcalf-Smith & Cudmore-Vokey, 2004) provides the method for status evaluation. In a national program all Territories and Provinces except Prince Edward Island and Newfoundland and Labrador were able to provide assessments of the status of their mussel populations.

The information held by the NSM, including that obtained during the recent NSDNR surveys, was used as a basis for providing a general status assessment for the Province of Nova Scotia (Status Rank), for Canada (COSEWIC) and for North America (Global Status). Since a large part of Nova Scotia was included in these surveys, the published assessments are probably appropriate for most species (See Metcalfe-Smith & Cudmore-Vokey, 2004).

Status rankings for each species have been included in this report.

Methods

This study has two components, the documentation of archival resources of the collection of the NSM (pre 1999) and the collection of new data by the NSM, NSDNR and others during the period 1999-2005.

1. The Mollusca collection comprises land, freshwater and marine species both local and exotic. The largest part is preserved dry while other material is preserved in 70% ethanol. Early records are documented in ledgers, accession books and card catalogues, but these and recently acquired material are now catalogued in the Museum's database. The Museum Information Management System (MIMS) is a proprietary system developed in 1997. It is a modified multi-user, client-server system incorporating a hybrid relational and object-oriented database design. Audited data from this project are fully represented in the MIMS database.

2. NSDNR initiated a survey of freshwater mussels in Nova Scotia in 1999 following a commitment to the National General Status Assessment of Freshwater Mussels. Samples were collected in eleven counties as per the methods outlined in Maclean (1999) and Pulsifer (1999). The field-generated Mussel Survey Data forms (Appendix I i) were then used as the basis for the Nova Scotia Museum Invertebrate Data record sheets (Appendix I ii). These data were entered into MIMS with the ultimate generation of MIMS record reports (Appendix I iii).

Site information documents, both positive and negative sites and labeled collections were presented for archive at the NSM. Initial annual projects provided selected material for the collection with accompanying manuscript reports Banks (1999), Maclean (1999),

Pulsifer (1999) and Sampson and Touesnard (1999). Later, all collected material was received by the NSM and subsequently sorted and catalogued at the Museum.

An example of field data and information drawn from this for the Museum database are shown in Appendix I. Full information on all NSDNR field collections will be included in a NSDNR report (in preparation).

Results and Discussion

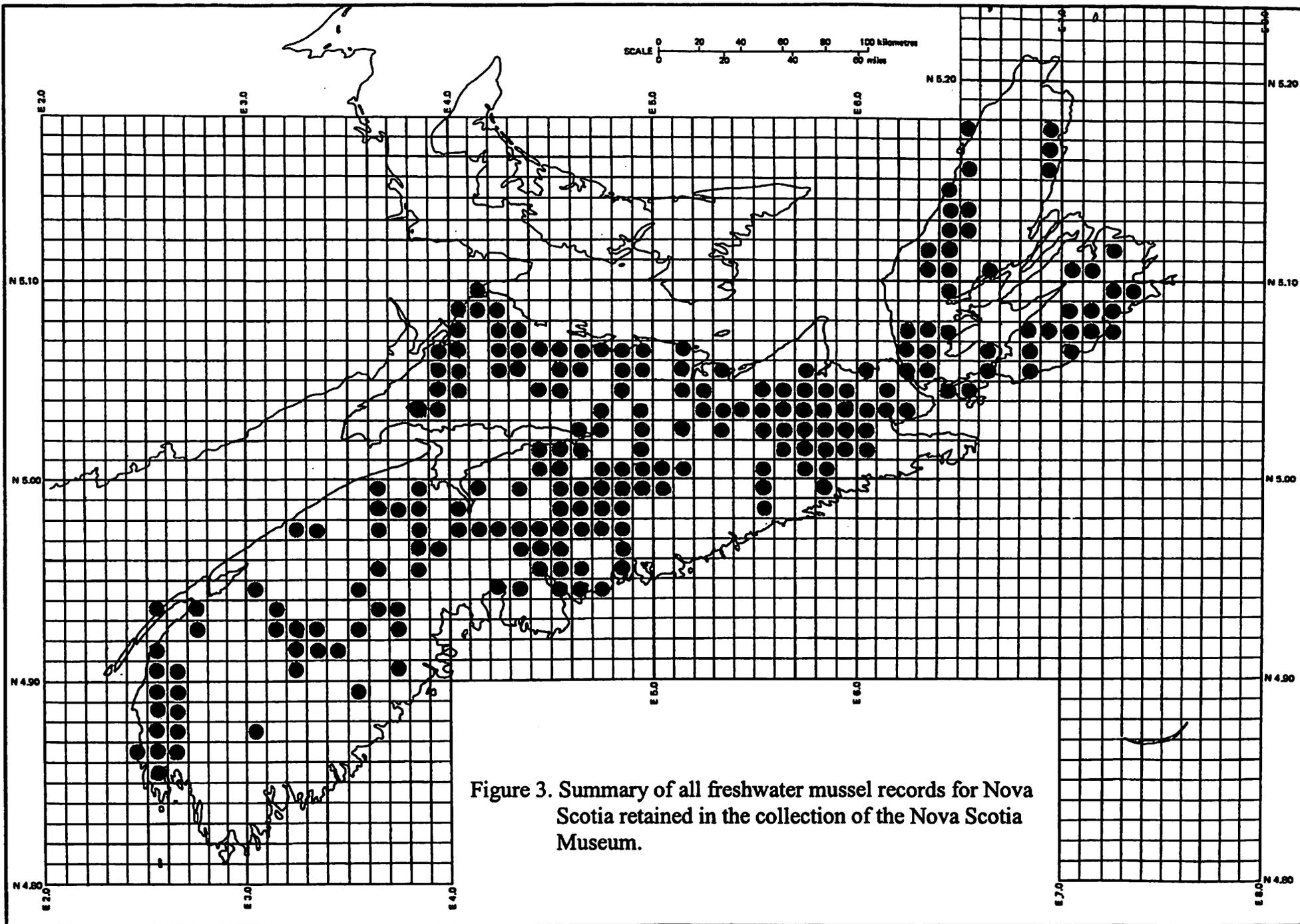
The catalogue of the freshwater mussels of the NSM is up-to-date as of June of 2006. The attached data shows 1083 entries, which include 919 records for Nova Scotia (Appendix II) and 164 records for other areas including both North American and exotic species (Appendix III). The Nova Scotia records are the main focus of the present study.

Early collections made in Nova Scotia, up to and including 1999 provide 338 lots. A specimen lot is a single catalogue entry. It is usually all specimens of a single species collected at the same geographic place at the same time. These include some of the earliest specimens collected in Nova Scotia, for example *Elliptio complanata* from Rawdon River in 1902, and the first scientific collections made in the 1950's by H.D. Athearn, A.H. Clarke and others. It is noted that earlier collections were made in the 19th century, but no specimens of such have been confirmed at this time. The collections made by the staff of the NSDNR and others since 1999 have added considerably to our knowledge of the distribution of these animals in Nova Scotia. A total of 581 lots of specimens was consequently added to the collection.

Figure 3 shows all freshwater mussel records for Nova Scotia summarized on a 10km² UTM grid map of the Province. The shaded circles in each grid square may be based upon one or several records for that square. This system is based on the one used in the *Atlas of the Land and Freshwater Molluscs of Britain and Ireland* (Kerney, 1999). This map is useful when it is compared with similar maps of each species particularly in Northern and Central mainland Nova Scotia and Cape Breton Island where the survey was more systematic. In the south and west however, no comparative survey has been carried out and the records are the results of random site surveys and opportunistic collecting.

Mussel distribution is related to habitats and the patterns of distribution of these habitats in the landscape. *The Natural History of Nova Scotia, Vol. 1* provides background information on the development of the landscape while *Vol. 2* describes the diverse landscape units that occur. The map of landscape units, Theme Regions (Figure 4), provides a context for the interpretation of each distribution map. It can be prepared as a transparency that can be overlain on the species maps (Figures 4-14).

In the areas surveyed, the importance of more alkaline water and soils to mussel occurrences (Region 500 -Carboniferous Lowlands) and areas where bedrock is covered with glacial till (Region 400 - Atlantic Interior and 800 Atlantic Coast), is noticeable. Areas of granite or greywacke which have thin, acid soils and acidic water have comparatively few records. Compare Units 851 and 852 (Granite Barrens) with District 870 (Till Plain). Reference to the occurrence of mussels in landscape units will be made



100 Plateau-Taiga
100 Plateau-Taiga

200 Highlands

- 210 Plateau-Fir Forest
 - a) The Highlands
 - b) Gairloch Mountain
- 220 Steep Slopes

300 Avalon Uplands

- 310 Hardwood Plateau
 - 311 Cobequid Hills
 - 312 Pictou-Antigonish Highlands
 - 313 North Bras d'Or Uplands
 - (a) Creignish Hills
 - (b) North Mountain
 - (c) Boisdale Hills
 - 314 Mabou Highlands
- 320 Dissected Margins
 - (a) Waughs River
 - (b) French River
- 330 Fault Ridges
 - (a) Sporting Mountain
 - (b) East Bay Hills

400 Atlantic Interior

- 410 Quartzite Plains
 - 411 Southwest Schists
 - (a) Lake Rossignol
 - (b) Leipsigate Lake
 - (c) Rocky Lake
 - 412 Mersey Meadows
 - (a) Lake Rossignol
 - (b) Leipsigate Lake
 - (c) Rocky Lake
 - 413 Quartzite Barrens
 - (a) Halifax
 - (b) Guysborough
- 420 Slopes and Ridges
 - 421 Sissiboo Lowlands
 - (a) Sissiboo Lowlands
 - (b) Meteghan Lowlands
 - (c) Lake George
 - 422 South Mountain Slope
 - (a) Bear River
 - (b) Gaspereau Valley
 - 423 Slate Ridges
 - (a) Rawdon Hills
 - (b) Wittenburg Ridge

430 Drumlins

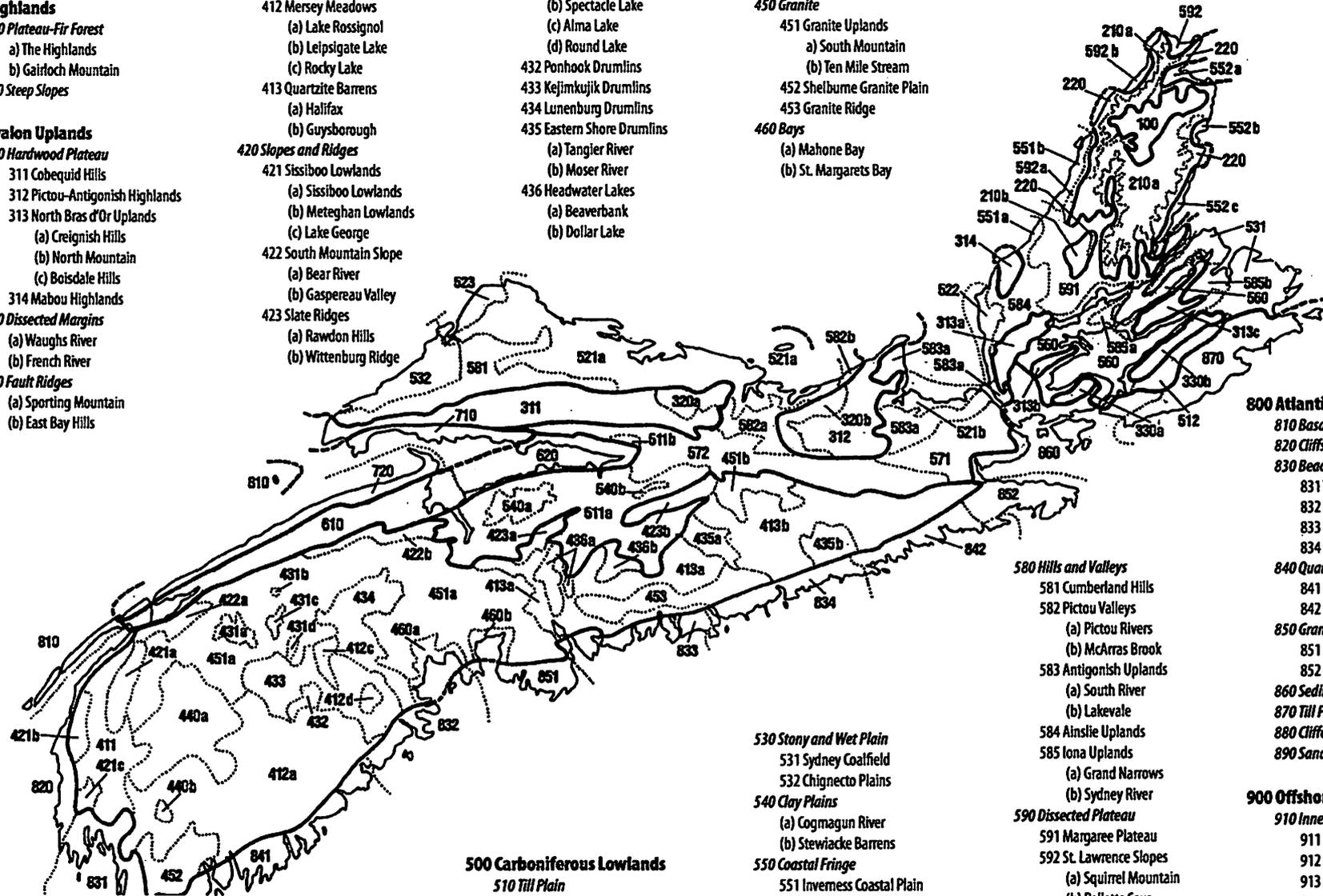
- 431 Annapolis Drumlins
 - (a) Fisher Lake
 - (b) Spectacle Lake
 - (c) Alma Lake
 - (d) Round Lake
- 432 Ponthook Drumlins
- 433 Kejimikujik Drumlins
- 434 Lunenburg Drumlins
- 435 Eastern Shore Drumlins
 - (a) Tangier River
 - (b) Moser River
- 436 Headwater Lakes
 - (a) Beaverbank
 - (b) Dollar Lake

440 Granite Barrens

- (a) Flintstone
 - (b) Bloody Lake
- 450 Granite**
- 451 Granite Uplands
 - a) South Mountain
 - (b) Ten Mile Stream
 - 452 Shelburne Granite Plain
 - 453 Granite Ridge

460 Bays

- (a) Mahone Bay
- (b) St. Margarets Bay



800 Atlantic Coast

- 810 Basalt Peninsula
- 820 Cliffs and Beaches
- 830 Beaches and Islands
 - 831 Tusket Islands
 - 832 LaHave Drumlins
 - 833 Eastern Shore Beaches
 - 834 Bay of Islands
- 840 Quartzite Head Lands
 - 841 Capes and Bays
 - 842 Guysborough Harbours
- 850 Granite Barrens
 - 851 Pennant Barrens
 - 852 Canso Barrens
- 860 Sedimentary Lowlands
- 870 Till Plain
- 880 Cliffed Island
- 890 Sandy Island (not shown)

580 Hills and Valleys

- 581 Cumberland Hills
- 582 Pictou Valleys
 - (a) Pictou Rivers
 - (b) McArras Brook
- 583 Antigonish Uplands
 - (a) South River
 - (b) Lakevale
- 584 Ainslie Uplands
- 585 Iona Uplands
 - (a) Grand Narrows
 - (b) Sydney River

530 Stony and Wet Plain

- 531 Sydney Coalfield
- 532 Chignecto Plains

540 Clay Plains

- (a) Cogmagun River
- (b) Stewiacke Barrens

550 Coastal Fringe

- 551 Inverness Coastal Plain
 - (a) Inverness/St. Rose Coalfield
 - (b) Chéticamp Coast
- 552 Victoria Coastal Plain
 - (a) Aspy River
 - (b) Ingonish River
 - (c) St. Anns Bay

560 Submerged Lowland

- 570 Rolling Upland
- 571 Mulgrave Plateau
- 572 St. Marys Fault Block

500 Carboniferous Lowlands

- 510 Till Plain
 - 511 Windsor Lowlands
 - (a) Shubenacadie River
 - (b) East Mountain
 - 512 Salmon River Lowland
- 520 Coastal Plain
 - 521 Northumberland Plain
 - (a) Northumberland Strait
 - (b) St. Georges Bay
 - 522 Judique Coastal Lowland
 - 523 Tantramar Marshes

600 Triassic Lowlands

- 610 Valley
- 620 Tidal Bay

700 Fundy Coast

- 710 Basalt Headlands
- 720 Basalt Ridge

900 Offshore/continental Shelf

- 910 Inner Shelf
 - 911 Atlantic
 - 912 Outer Bay of Fundy
 - 913 Inner Bay of Fundy
 - 914 Northumberland Strait
 - 915 Sydney Bight
 - 916 Bras d'Or Lake
- 920 Middle Shelf
 - 921 Middle Shelf Banks
 - 922 Middle Shelf Basins
 - 923 Valleys and Plains
- 930 Outer Shelf
 - 931 Outer Shelf Banks
 - 932 Bank Edges, Saddles, and Channels
 - 940 Scotian Slope

Figure 4. Regions 100 to 900 and Component Districts and Units. From Davis, D.S. and S. Browne (eds.) 1996b.

in the following treatment of each species (Underwood *et al.*, 1987, Davis and Browne, 1996b).

The inventory of eleven species resulting from the work of Athearn and Clarke (1962) and Clarke and Meachem Rick (1963) remains the same after more than 40 years and their publications are the foundation references for the current studies. Recent work has provided many new records and some significant information on rare species such as *Alasmodonta varicosa* and *Strophitus undulatus*. *Alasmodonta heterodon* has never been reported from Nova Scotia, though small potential for an occurrence remains. The only known Canadian population of this species was in southern New Brunswick but this has been determined by COSEWIC to be extirpated (Hanson and Locke, 2000). The Newfoundland floater, *Pyganodon fragilis*, is not clearly distinguished in Nova Scotia although some specimens are considered to be hybrids with the Eastern floater, *Pyganodon cataracta* (Kat and Davis, 1984). In the present survey only *P. cataracta* is reported, but specimens are available for re-examination. It should also be noted that specimens of *Pyganodon* from about 84,000 years B.P. pre-Wisconsinan interglacial deposits at Milford Quarry, Nova Scotia (Godfrey-Smith *et al.*, 2003) are also available for examination in the palaeontology collection of the NSM.

Information on ten species of freshwater mussels that occur in the Maritime Provinces is provided below. The species are presented in systematic order as found in Table 1.

***Margaritifera margaritifera* (Linnaeus, 1758)**

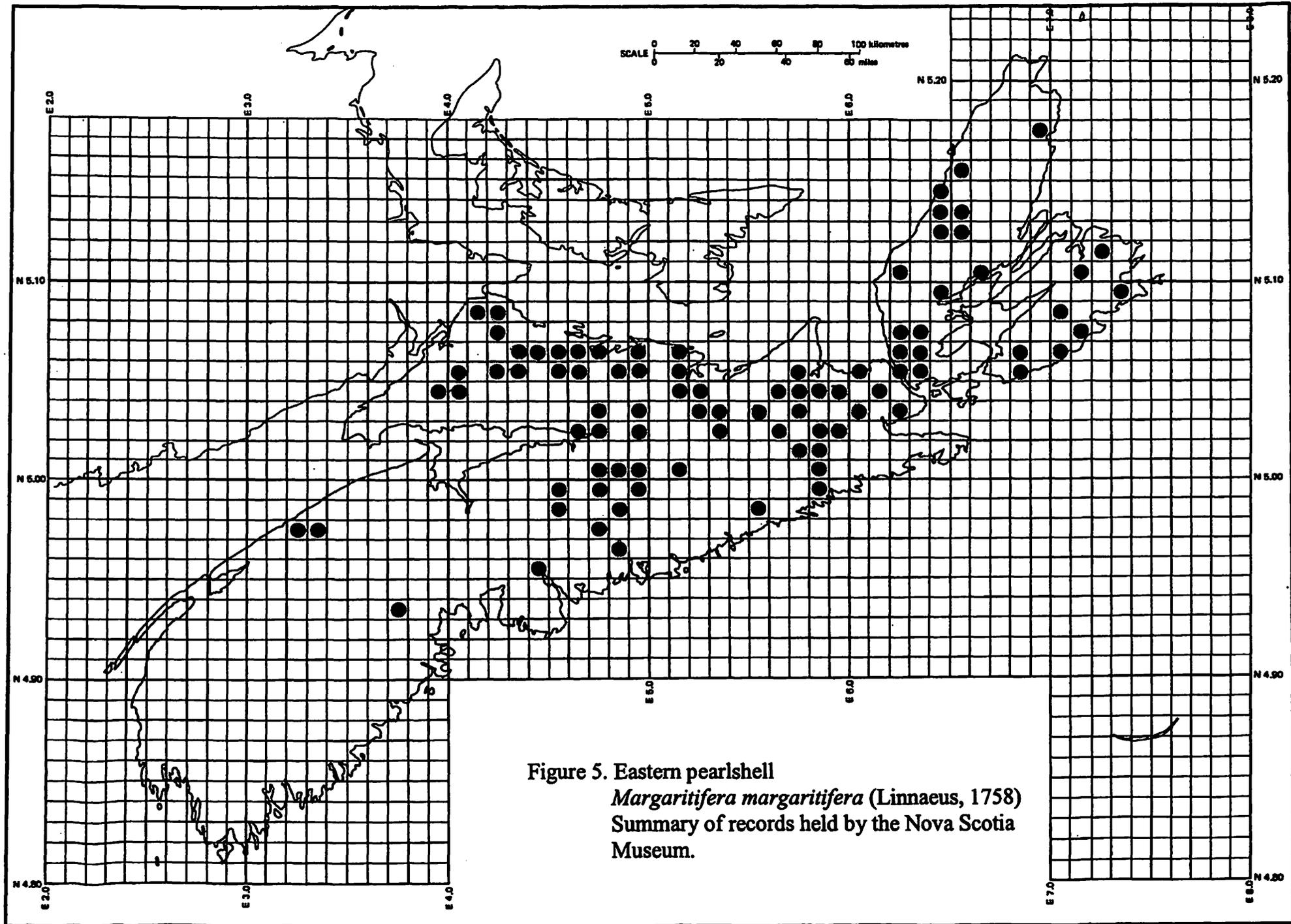
Eastern pearlshell

Plate I: 1 and 2; Figure 5: Summary of Records in Nova Scotia

First recorded in Nova Scotia as "*Alasmodonta* (sic) *margaritifera*" by J.R. Willis (1863), from rivers in Annapolis County and the Sackville River. J. Matthew Jones later reported it as "*Margaritana arcuata*, St." (Jones, 1877). However, it was not until the late 1940's that H.D. Athearn carried out the first province-wide study that resulted in 23 confirmed locality records and 13 specimen lots for the NSM collection (Athearn and Clarke, 1962). This work was continued by Clarke and Meachem Rick (1963) who reported *Margaritifera margaritifera* from 17 additional sites in Nova Scotia. Additional records from some new stations were made by NSM staff and others prior to the recent NSDNR survey 1999-2004. The NSDNR survey did not include areas of southwest Nova Scotia and there remain deficiencies in information about *M. margaritifera* in this area. Currently the NSM has 145 specimen lots from Nova Scotia, 9 lots from New Brunswick and 2 lots from Newfoundland and Labrador.

Several authors have noted that *M. margaritifera* occurs in Eastern North America and Northern Europe. However, a recent study of DNA by Huff *et al.* (2004) reviewing the classification on the genus *Margaritifera* has demonstrated that the European and North American populations may be different species. Nova Scotia material has been collected by the NSM and sent for study.

The size, shell shape and colour conform to descriptions in Clarke (1981), Nedeau *et al.* (2000) and Burch (1975a). The bivalve shells reach up to 150mm in length and 65mm in



height with a straight or slightly concave lower margin. The colour of the periostracum is brown to black and the inside of the shell is whitish with a series of microscopic pits characteristic of the Margaritiferidae. There are pseudocardinal teeth but no lateral teeth.

This species is found from Pennsylvania and New York, north through the Maritime Provinces, both sides of the lower St. Lawrence River and Gulf, Anticosti Island and Newfoundland and southern Labrador. In Nova Scotia it is mainly found in central and northern areas with records from many rivers, but rarely in the south with a few records from the Annapolis, Nictaux and LaHave (North Branch). The lack of records from the south may be due to incomplete survey effort or to adverse water quality (acidification) or other factors. The host fish for *M. margaritifera* are salmonids; Atlantic salmon, Brown and Brook trout (See Table. 2), which are sensitive to acid waters.

The common habitat for the Eastern pearlshell is flowing water of rivers and streams with mud, sand, gravel or stony bottom substrate. It is reported mainly from “soft waters” low in calcium in other parts of the range (Strayer, 1993), but also in some hard water areas in Nova Scotia.

Currently rated by COSEWIC (2006) at 4 “secure” nationally and 3 “sensitive” in Nova Scotia, due to potential effects of acid precipitation. (Nova Scotia General Status “Yellow”)

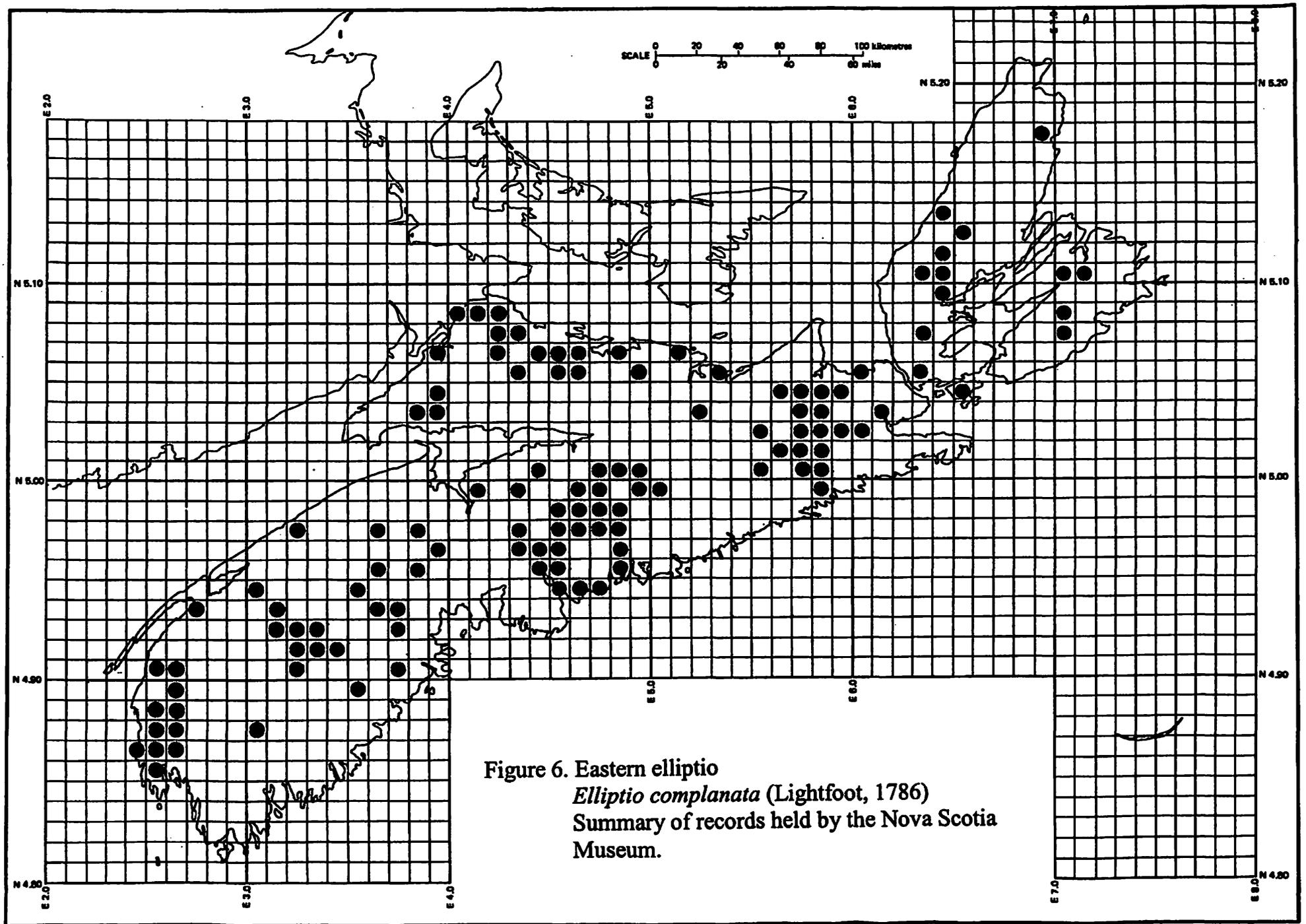
***Elliptio complanata* (Lightfoot, 1786)**

Eastern elliptio

Plate I: 3, 4 and 5; Figure 6: Summary of Records in Nova Scotia

First recorded for Nova Scotia by J. R. Willis in 1863 as “*Unio complanatus*, Lea. Common to most lakes in Nova Scotia.”. Since that time many records of *Elliptio complanata* have been made including those by Athearn and Clarke (1962) and Clarke and Meachem Rick (1963), as well as those of the recent NSDNR survey. These studies and many others contributed specimens to the NSM collection which currently has 300 specimen lots from Nova Scotia and 30 from New Brunswick, Ontario and the United States.

The colour and morphology of the species in Nova Scotia conforms to published descriptions (Clarke, 1981 and Nedeau *et al*, 2000) See Plate 1. Quite variable in form but typically elongate, rectangular and rounded anteriorly, truncated posteriorly and somewhat laterally compressed. The exterior is unsculptured and has a brown to black periostracum with conspicuous annual growth interruptions. Some juveniles and adults from sandy substrates are lighter in colour and may show distinct rays running from the umbones to the ventral margin. The pearly interior of the shell is usually purple to white in colour. The hinge teeth are well-developed with pseudocardinal teeth, one in the right valve and two in the left. There is one lateral tooth in the right valve that articulates with two in the left valve. There are shallow anterior and posterior adductor muscles scars. It was noticed that the specimens with rays in the periostracum associated with a sandy substrate are more common at some locations. This has caused some confusion with the Eastern lampmussel, *Lampsilis radiata*, for example at Lake Ainslie (MacLean, 1999).



The Eastern elliptio is found from the Atlantic drainage of Georgia, north to the eastern and northern shores of the Great Lakes. In Canada it occurs in eastern Ontario and southern Quebec, New Brunswick and Nova Scotia. It is not found in Prince Edward Island or Newfoundland and Labrador. In Nova Scotia this species has been commonly found through the Province and particularly in fertile river basins such as the Margaree, St. Marys, Musquodoboit, Shubenacadie, Stewiacke, LaHave, Mersey and Annis Rivers. The common habitat is the shallows of lakes and river backwaters (out of the main current), found both in bare sand or sandy mud and amongst littoral vegetation. It is apparently tolerant to "pollution" from street runoff as it is found in many urban lakes and ponds, e.g. Dartmouth lakes.

Mussels have been recorded up to 16 years of age with a shell length of 12.0cm (Metcalf-Smith and Green, 1992).

The confirmed fish hosts for glochidia of *E. complanata* are Yellow perch and Banded killifish (See Table. 2).

Currently (2006) rated by COSEWIC nationally: 4, "secure" and in Nova Scotia: 4, "secure" (Metcalf-Smith and Cudmore-Vokey, 2004). (Nova Scotia General Status "Green")

***Alasmidonta varicosa* (Lamarck, 1819)**

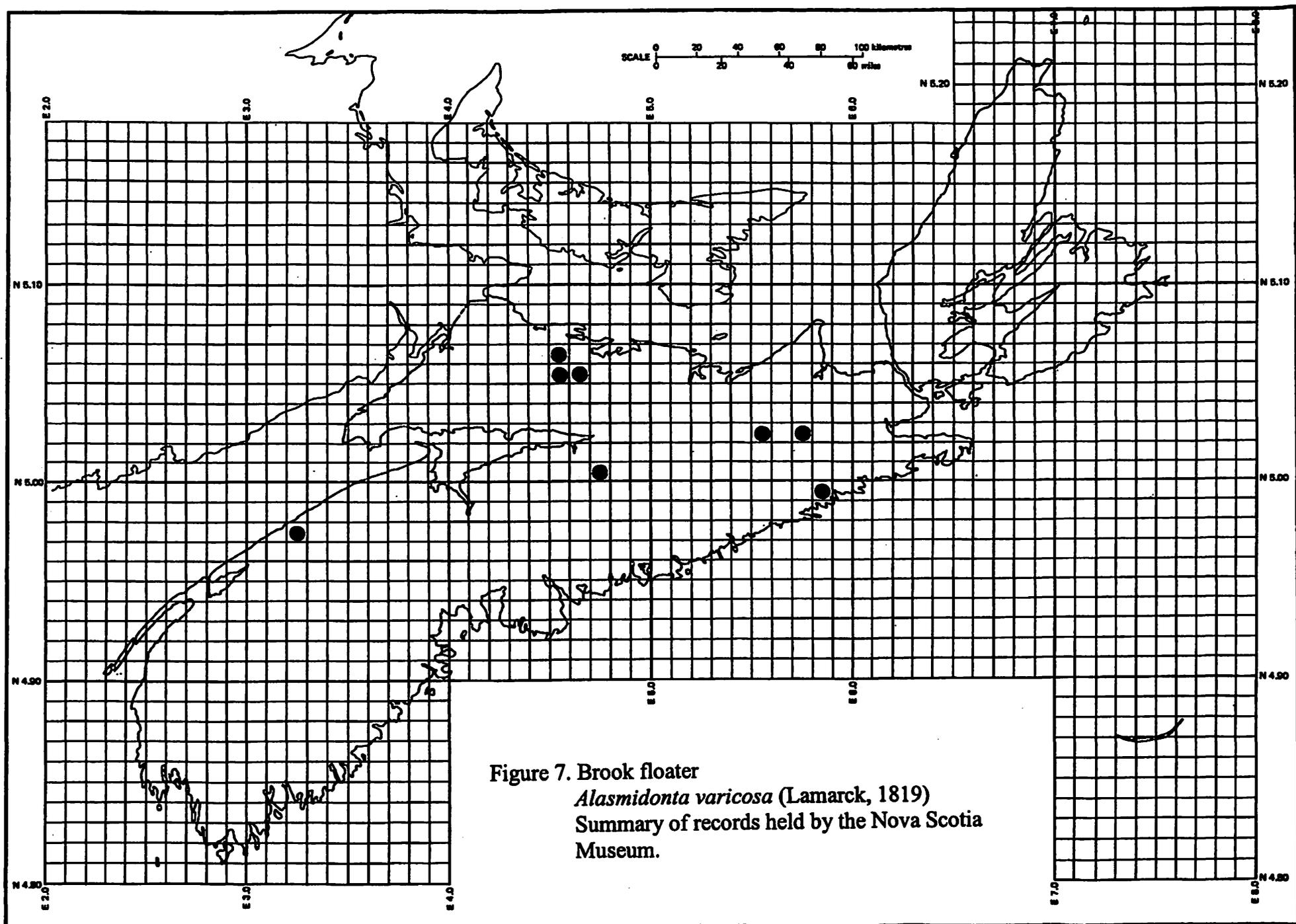
Brook floater

Plate I: 6 and 7; Figure 7: Summary of Records in Nova Scotia

One of the earliest Nova Scotia records of this species and certainly the first lot in the NSM collection was made by H.D. Athearn in 1946 from the St. Mary's River in Guysborough County. Athearn and A.H. Clarke reported it found in only four localities in their 1962 publication. *Alasmidonta varicosa* was obviously rare but widely distributed in Nova Scotia. During the early 1970's D.S. Davis and other staff of the Nova Scotia Museum opportunistically investigated known sites for freshwater mussels and *A. varicosa* was confirmed at two new localities; in the Wallace River, Cumberland County and East St. Mary's River, Guysborough County. However, it was not until the 1999-2002 NSDNR project that an intensive freshwater mussel survey was undertaken. As a result several new records and new Museum specimens were obtained. The lots are included in the catalogue and all known records are summarized in Figure 5. The Nova Scotia Museum has a total of 12 lots; 9 from Nova Scotia and 3 from New Brunswick.

The specimens all conform to the description by Clarke (1981). The shell is up to 70mm long, 40mm high and rather inflated at the posterior end. The ventral margin may be flat or concave. The exterior is smooth except for some weak sculpture on the posterior slope, with ridges crossing the lines of growth. The periostracum is yellowish, greenish or brownish to black, with numerous dark rays best seen in young specimens. The interior nacre is variable, coloured bluish-white but with additional pinkish-white and orange. Pseudocardinal teeth are present but poorly developed and there are no lateral teeth.

The range is the Atlantic slope drainage from South Carolina north to New Brunswick and Nova Scotia. In Nova Scotia the occurrences are sporadic and only known from a few watersheds in northern and central parts of the Province; Wallace River, Matatall



Lake, St. Mary's River, Lochaber Lake, Eden Lake, Stewiacke River and Annapolis River. There are no records for southern Nova Scotia or Cape Breton Island.

Both river and lake habitats are reported, with bottoms of rock and gravel. In the areas occupied, waters have a pH above 5.4. Host fish in Nova Scotia are most likely Golden shiner, Blacknose dace, and Yellow perch (See Table 2). *Alasmidonta varicosa* is a long-term brooder with brooding lasting from August to the following May.

Status rank has been determined by COSEWIC as Level 3 "sensitive", both nationally and in Nova Scotia, but Level 2 "may be at risk" for New Brunswick. (Nova Scotia General Status "Yellow")

***Alasmidonta undulata* (Say, 1817)**

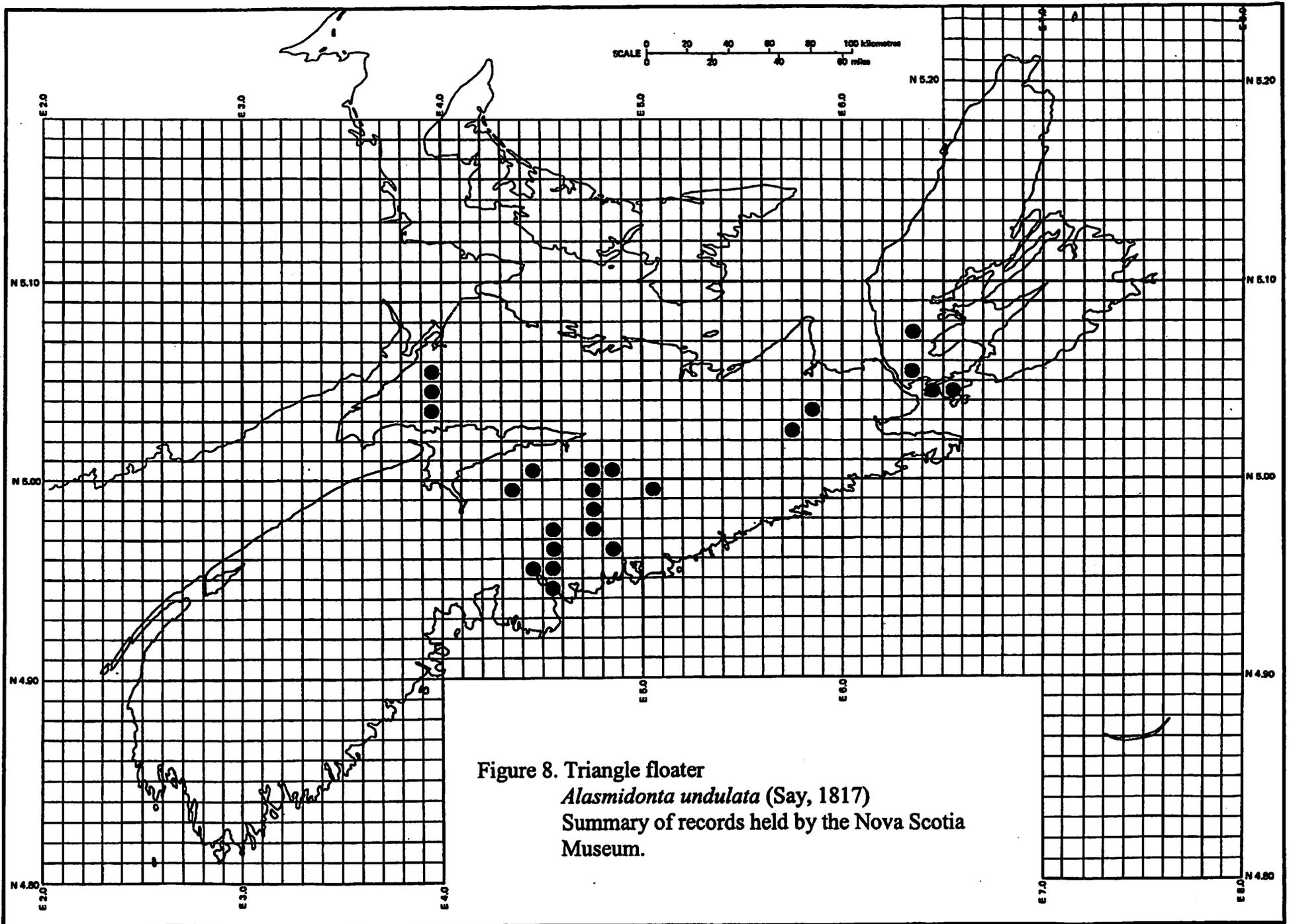
Triangle floater

Plate I: 8 and 9; Figure 8: Summary of Records in Nova Scotia

Athearn and Clarke (1962) have provided records of this species from central Nova Scotia and some of their specimens are in the NSM collection. They suggest the report by J.R. Willis (1863) of "Unio ...(?)" from "Dartmouth Lakes" was probably that of *Alasmidonta undulata*. Collections made by the NSM in 1987 confirm the presence of this species in Lake Banook, Dartmouth and support the view that Willis made the first record of *A. undulata* for Nova Scotia. The NSM also has an unpublished record from Rawdon River, Halifax County made in 1902 by H. Piers. Other collections were made by N. S. Museum staff between 1869 and 1987. Between 1999 and 2004 the survey of central and northern areas of Nova Scotia, carried out by NSDNR and supported by NSM personnel covered all of Cape Breton Island and Central and Northern Nova Scotia. The Museum collection has 32 specimen lots from Nova Scotia as well as five lots from New Brunswick collected by H. D. Athearn (1946-51).

The morphology conforms to that described by Clarke (1981). The adult shell is thick, triangular in shape and up to 75mm long. It has a smooth external surface, except for umbone sculpture. The periostracum is coloured yellowish, greenish or reddish-brown with darker rays that may be obscured by black colouration in older specimens. The hinge teeth are well developed and include pseudocardinals, one in the right valve and two in the left. Lateral teeth are vestigial or absent. The interior nacre is whitish to bluish coloured. A shell length of 50mm could be achieved in about 7.5 years (Metcalf-Smith, J.L. and R.H. Green, 1992).

This species is found in the Atlantic drainage from Florida north to New Brunswick and Nova Scotia and to the St. Lawrence River below Lake Ontario. In Nova Scotia *A. undulata* has a patchy distribution in rivers draining directly to the Bay of Fundy or Atlantic Ocean. It is more common than originally thought with records now for Richmond, Inverness, Antigonish, Cumberland, Hants and Halifax counties. Southern and western Nova Scotia remains inadequately surveyed. Important centres of population are River Inhabitants, Loch Katrine, Copper Lake, Musquodoboit River, Nine Mile River, Shubenacadie headwater lakes, Dartmouth lakes, Stewiacke River, Kennetcook River, Newville Lake and River Hebert.



Alasmidonta undulata makes use of river, stream and lake habitats with rock, gravel, sand or mud substrates and may also require water with pH above 5. Host fish are reported to be Common shiner, Blacknose dace and White sucker (See Table 2.).

Currently (2006) rated by COSEWIC nationally as 4, "secure" and also at 4 "secure" for Nova Scotia. (Nova Scotia General Status "Green")

***Strophitus undulatus* (Say, 1817)**

Creeper

Plate II: 12 and 13; Figure 9: Summary of Records in Nova Scotia

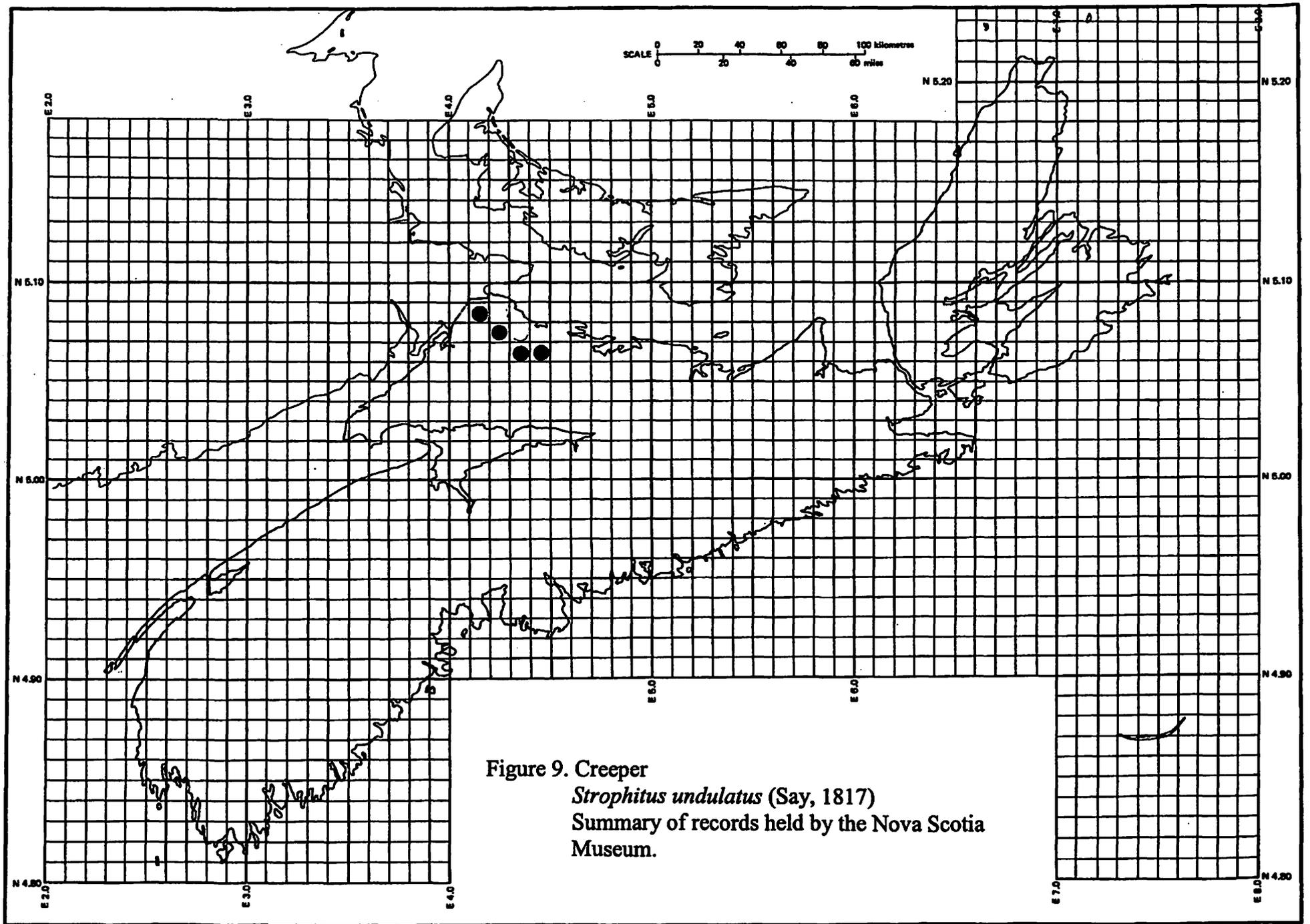
Strophitus undulatus was first reported for Nova Scotia by H.D. Athearn (Athearn and Clarke, 1962) from Tidnish River in Cumberland County (c. 1960). Clark and Meachem Rick (1963) collected this species only in the Shinimicas River and at Big Lake, both in Cumberland County. These sites were visited by NSM staff in the 1970's-1990's but no additional specimens were found. The recent survey by NSDNR also did not produce any records from these sites but a population was discovered at a new site, Vickery Lake, near Oxford in Cumberland County. Many other sites visited in this area did not generate any additional records. The NSM has two specimen lots from Vickery Lake in its collection.

Strophitus undulatus is a small to medium size mussel, less than 70mm in length in Nova Scotia specimens. The valves are fairly flat and thin with prominent growth lines. The periostracum is light coloured and sometimes rayed in young specimens but dark brown to black in older specimens. The hinge teeth are rudimentary or lacking. The nacre is white or bluish-white with characteristic dull yellow or green in the umbone cavity. Descriptions and illustrations of this species are given by Athearn and Clarke (1962), Clarke (1981) and Nedeau *et al.* (2000).

Because this species is rather lacking in strong characters it can readily be confused with *Elliptio*, *Alasmidonta* or *Anodonta* species.

The range of this species is broad from the Nelson River and Red River in the north, through Mississippi-Ohio Rivers south to Texas and east into Pennsylvania and Tennessee. In the east it occurs in the Atlantic drainage from South Carolina, north to Nova Scotia and the Upper St. Lawrence and Great Lakes. In Atlantic Canada its range is very limited. There is a population in southern New Brunswick, as well as several small populations in Cumberland County, Nova Scotia. All known Nova Scotia localities are in Northumberland Strait drainage; Pugwash River, River Philip, Shinimicas River and Tidnish River; *Natural History of Nova Scotia* Units: 521, Northumberland Plain and 523, Tantramar Marshes.

Clarke (1981) states that the habitats are mainly rivers and creeks and Nedeau *et al.* (2000) report that *S. undulatus* only occurs in rivers and streams in Maine. Strayer (1993) has determined that "non-tidal, hydrologically stable streams" are most suitable. Two of the Nova Scotia localities are in small streams and two are in lakes. Slow flows, silty-sand bottom and sparse vegetation are reported as preferred habitats.



Strophitus undulatus is a long-term brooder, eggs being fertilized in summer and released the next spring. The reported host fish are Golden shiner, Common shiner, Creek chub and Yellow perch (See Table. 2).

Status rank has been determined by COSEWIC as 4 “secure” nationally and 2 “maybe at risk” in Nova Scotia. The status of New Brunswick populations has not been determined. There is some evidence for a decline in the number of occurrences in Nova Scotia since 1960. This is a “species of concern” in the State of Maine. (Nova Scotia General Status “Red”)

***Pyganodon cataracta* (Say, 1817)**

Eastern floater

(= *Anodonta cataracta* Say, 1817)

Plate II: 14, 15 and 16; Figure 10: Summary of Records in Nova Scotia

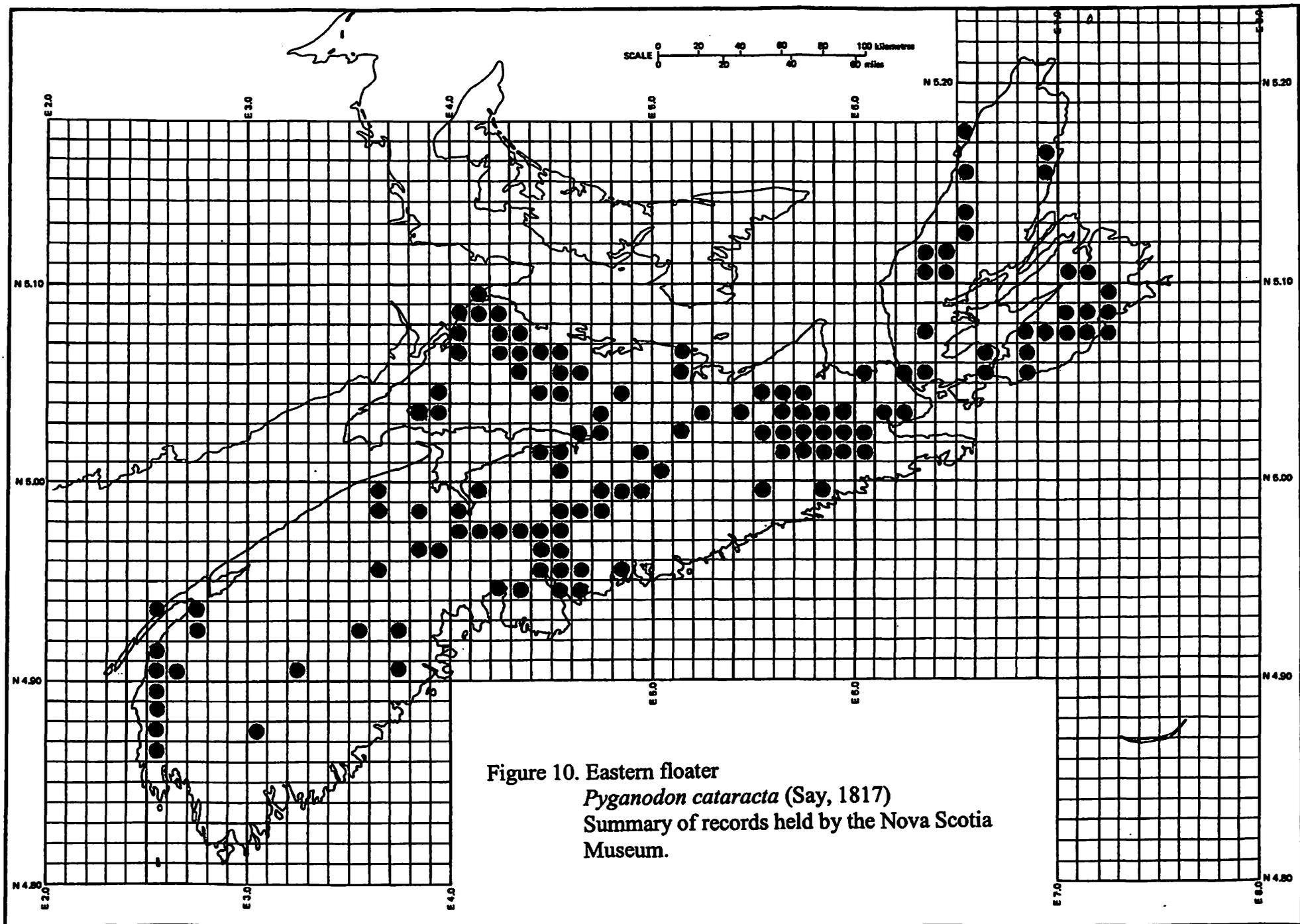
Pyganodon cataracta is one of the most common and widespread of freshwater mussels in Nova Scotia. It was first reported for the Province by J.R. Willis (1863) as “*Anodonta fernssaciana*” (sic). Clarke and Meachem Rick (1963) consider Willis’ Nova Scotia specimens, examined at the British Museum (Natural History), to be intergrades between *A. cataracta cataracta* and *A. cataracta fragilis*. The first specimens acquired by the NSM were collected in the 1940’s and 1950’s, particularly by D. Livingstone and H.D. Athearn, with additional specimens collected by G.H. Cox who collected specimens at Grant Lake, Pictou County in 1946. Many specimens were collected and records made by Museum staff and others during the 1960’s through 1990’s with substantially more by the NSDNR survey 1999 to 2004. At present the NSM has 242 specimen lots from Nova Scotia and another 12 from other areas including 9 lots from New Brunswick.

Pyganodon cataracta is quite variable in its form in Nova Scotia as has been described by Athearn and Clarke (1962), Clarke and Meachem Rick (1963), Clarke (1981) and Kat and Davis (1984). As a result species and subspecies names have been applied, based on shell characteristics, particularly the bar sculpture at the umbones described as “single” looped for the Newfoundland floater, *P. fragilis* and “double” looped for the Eastern floater, *P. cataracta* (Nedeau *et al.*, 2000). In this study all have been referred to as *P. cataracta*.

The shell valves are elongate and up to 150mm in length, but generally about 100mm. They are thin and fragile, inflated along the sides with low umbones that show characteristic looped umbone sculpture, as previously mentioned. The umbones are often eroded, obscuring this characteristic. There are no hinged teeth. The periostracum is smooth, glossy and variably yellowish, greenish or brownish-black in colour. Two prominent green rays are often present on the posterior slope. Growth rings are prominent. The interior nacre is blue-silver in colour, thin and without regions of thickening.

The range is the Atlantic coastal drainage from the Gulf of Mexico, north to the Great Lakes and Lower St. Lawrence River. It occurs generally in New Brunswick, Prince Edward Island and Nova Scotia. The populations in Cape Breton Island as well as Anticosti Island and Newfoundland are thought by Clarke (1981) to be *P. fragilis*.

Pyganodon cataracta occurs commonly throughout Nova Scotia.



A wide range of habitats is occupied including slow-running streams of various sizes, lakes and ponds including river ox-bow ponds and gravel pits. One unusual habitat is sink-hole ponds in gypsum karst areas, where the animals are often isolated from other populations and grow to large sizes, c. 150 mm lengths, with thick shells. Pre-Wisconsinan sub-fossil specimens (c. 84,000 BP, Godfrey-Smith *et al.* (2003)) have been found in ancient sink hole ponds in a gypsum quarry at East Milford, N.S. (NSM collection). A wide range of substrates is used from gravel to soft mud. It is found in all water except those with pH below 5.0. Host fish are White sucker and Three-spined stickleback (See Table. 2).

Pyganodon cataracta has been rated by COSEWIC (2006) to be nationally level 4 “secure” and similarly “secure” in Nova Scotia, New Brunswick and Prince Edward Island. (Nova Scotia General Status “Green”)

***Anodonta implicata* Say, 1829**

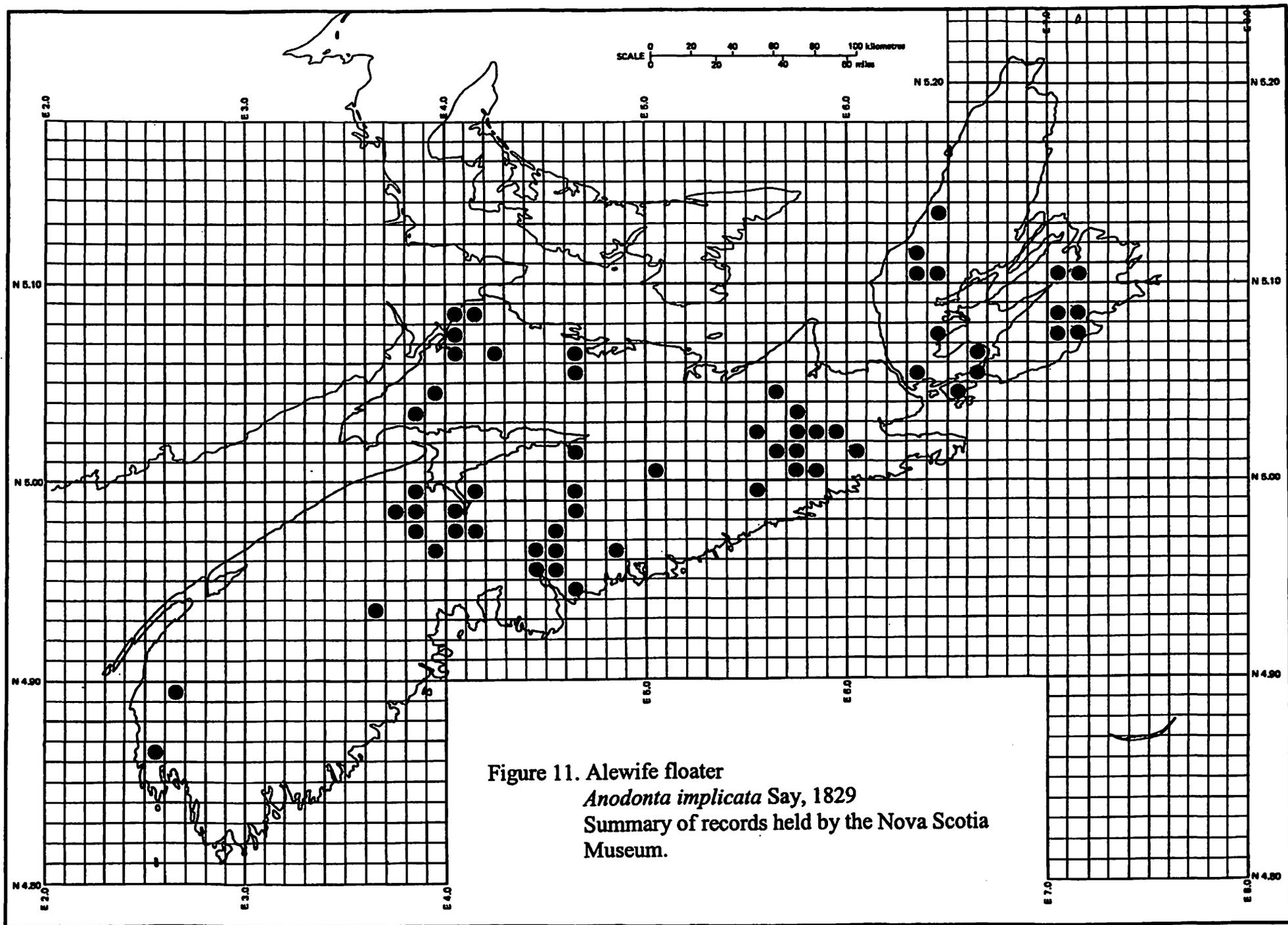
Alewife Floater

Plate II: 17 and 18; Figure 11: Summary of Records in Nova Scotia

The earliest record of *Anodonta implicata* in the NSM collection is from the Shubenacadie River, made by H. D. Athearn in 1948, but the species has been known in Nova Scotia since 1863 (Willis, 1863). The collections made by Athearn and Clarke (1962) and Clarke and Meachem Rick (1963) laid the foundation of the current material and knowledge of this species in the province. Museum collecting up to 1999 and the 1999-2003 DNR Survey have provided the most recent material with 93 specimen lots available. There are also three lots from New Brunswick and one from Massachusetts.

The form and colour of Nova Scotia specimens are generally as described in the literature with fully grown individuals up to 140 mm. in length and yellowish-brown to black in colour. In the past some large (c. 145 mm. length) *Anodonta* mussels from small ponds, including sink hole ponds in gypsum, have been identified as *A. implicata*. The shells of these specimens are very glossy, show internal thickening which is not restricted to the anterior end and the colour is yellow brown. These confusing specimens are considered to be *Pyganodon cataracta*.

The species ranges from South Carolina north to Maritime Canada: Southern New Brunswick and Nova Scotia but not Prince Edward Island. Clarke and Meachem Rick (1963) describe the distribution as sporadic and this holds true from the present study where many known occurrences have been confirmed and new populations identified. Distribution is in coastal areas with larger streams which have runs of the host fish species; Gaspereau (Alewife), Blueback herring and American shad (See Table. 2). Major populations are in Musquodoboit River, St. Mary’s River, River Inhabitants, Mira River, Margaree River, Wallace River, Parrsboro River, Shubenacadie River, Avon River, Black River, Gaspereau River, Annis River, LaHave River and Shubenacadie Canal and Dartmouth Lakes. Some apparent gaps in the distribution may be due to acidic waters (pH <5.0) and/or lack of survey effort (Southwest Nova Scotia). It mostly occurs on sand and gravel bottoms in lakes, ponds and rivers, including tidal freshwaters.



Anodonta implicata is currently ranked by COSEWIC (2006) both provincially and nationally at Level 4, "Secure". (Nova Scotia General Status "Green")

***Lampsilis cariosa* (Say, 1817)**

Yellow lampmussel

Plate III: 19, 20, 21 and 22; Figure 12: Summary of Records in Nova Scotia

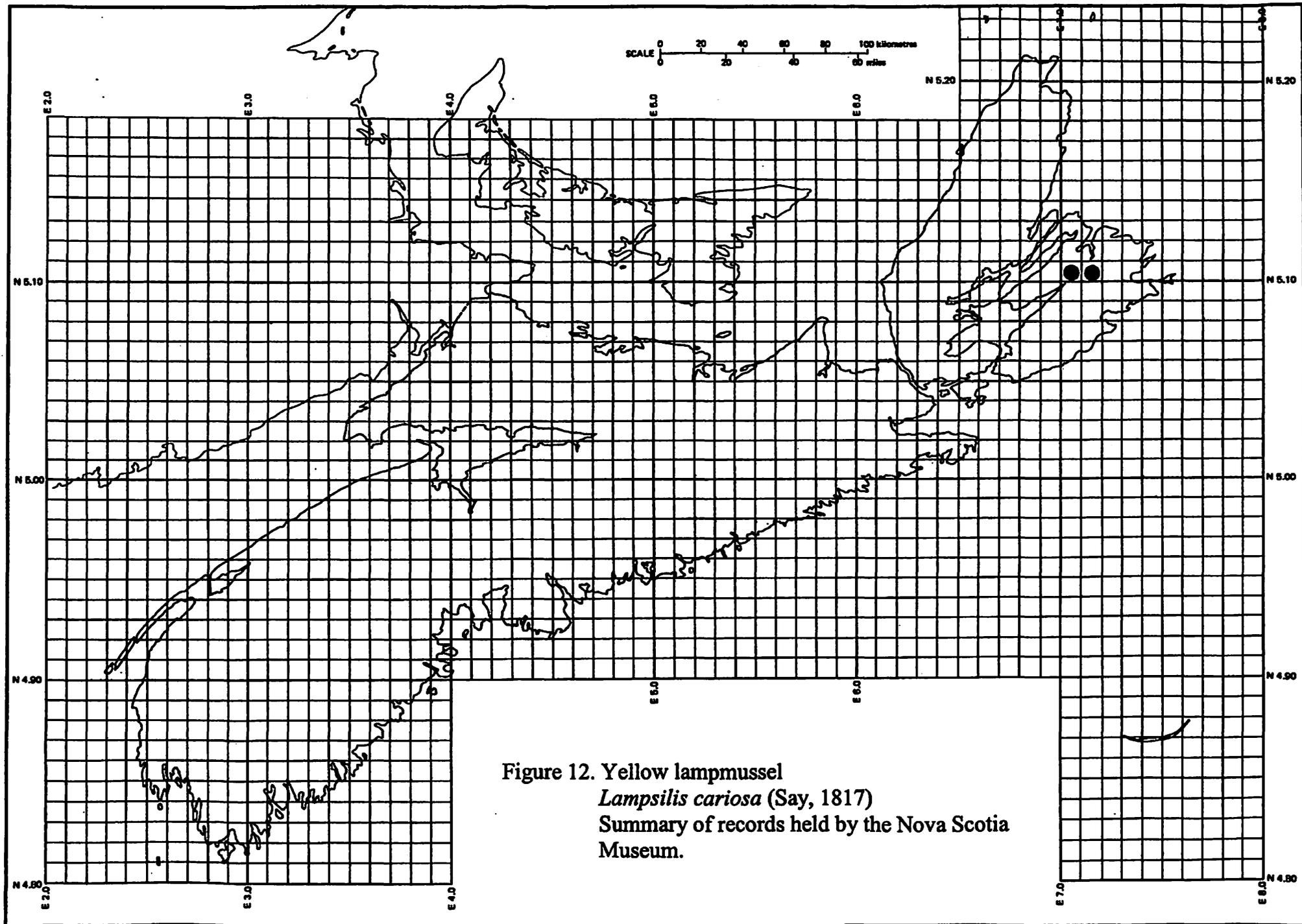
Prior to 1962 there were no published records of the Yellow lampmussel in Nova Scotia and due to problems in taxonomy the status of this species in Canada was in doubt (Clarke and Meachem Rick, 1963). The discovery of a population in Sydney River was therefore of some significance. For the following 40 years studies have documented the continued survival of the species in the Sydney River, but, despite extensive survey efforts, no other populations have been discovered in Nova Scotia. A status report on *Lampsilis cariosa* was prepared for COSEWIC and a draft submitted in 2001 (Davis *et al.* 2003). It was considered as being a Species of Special Concern in 2003. More recently the presence of *L. cariosa* in the Saint John River, New Brunswick has been confirmed and the species appears to be quite common in the lower reaches of the river. The NSM has 9 specimen lots from Sydney River in its collection.

Lampsilis cariosa is well described and illustrated by Clarke (1981), Nedeau *et al.* (2000) and Strayer and Jirka (1997). It is a large (up to 100mm length) ovate species. The surface is smooth with growth rests and the periostracum smooth, polished, orange-yellow to yellow-brown in colour. Some individuals have fine green lines in the periostracum on the posterior dorsal slope of the shell. Internally the nacre is white or bluish-white sometimes with pink or orange in the umbone cavities. The hinge teeth are complete and well-developed. There is sexual dimorphism in this species. The shells of females have greater depth at the posterior end.

The general distribution of this species is the Atlantic drainage from Cape Breton Island south to the Ogeechee River in Georgia. The northern populations are disjunct from the main populations by hundreds of kilometers. It is widely distributed but somewhat rare in Maine, being listed as 'threatened' in that state. The Canadian populations are in southern New Brunswick and Cape Breton Island, Nova Scotia. The NSM has records from Sydney River, Blacketts Lake and Gillis Lake. All sites are in *Natural History of Nova Scotia* Units 531 and 585.

The typical habitat is larger streams but it is also found in lakes. The substrate is mainly sand on exposed shores or in swift currents. In Sydney River the waters tend to be alkaline with pH 7.2 to 7.5 (Alexander *et al.*, 1986). *L. cariosa* is a long-term brooder, eggs are fertilized in late summer and the glochidia released the following spring. The host fish in Nova Scotia are White perch and Yellow perch (See Table. 2).

Status rank has been determined by COSEWIC nationally as 3 "sensitive", for New Brunswick as 3 "sensitive" and for Nova Scotia 2 "maybe at risk. (Nova Scotia General Status "Red")



***Lampsilis radiata* (Gmelin, 1791)**

Eastern lampmussel

Plate III: 23 and 24; Figure 13: Summary of Records in Nova Scotia

In the literature this species is often referred to as *Lampsilis radiata radiata*, including the subspecific name to distinguish typical *radiata* from other subspecies that do not occur in Eastern Canada (Clarke, 1981). Willis (1863) first reported this species in Nova Scotia as “*Unio radiata*, Lam. Grand Lake, on line of Nova Scotia Railroad; not common.” The first specimens obtained by the NSM were collected by Dr. G.H. Cox, an amateur malacologist, about 1950, from localities in Pictou County. Some other specimens resulted from the work of H.D. Athearn particularly in 1953 and 1954 (Athearn and Clarke, 1962). From 1975 onwards D.S. Davis and colleagues at the Museum collected specimens from eleven localities but the significant effort, in 1999-2003, came from the survey work of NSDNR which added many new localities and specimens to the collection. Currently the Museum has 60 specimen lots from Nova Scotia, 5 from New Brunswick, 1 from Quebec, 2 from Ontario and 2 from New York State.

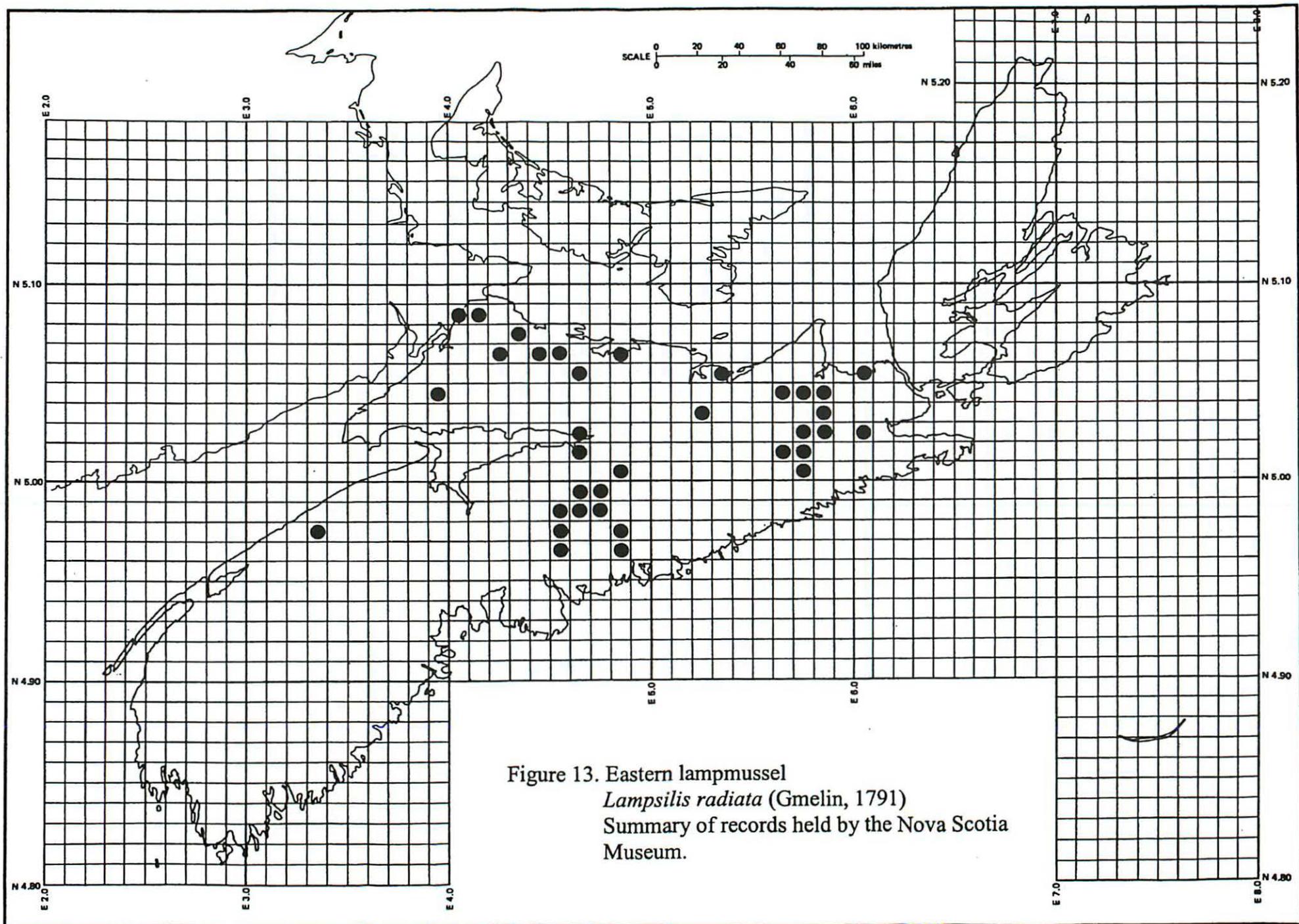
Lampsilis radiata is a fairly distinct species, up to 100mm in length with an elliptical outline in males but expanded in the posterior ventral margin in females. This strong sexual dimorphism is also seen in *L. cariosa* and *Leptodea ochracea*. The periostracum is yellowish-brown to dark brown, with numerous dark rays. The interior nacre is white to bluish-white or pink. The hinge teeth are well developed with 3 pseudocardinal teeth in the right valve and 2 in the left. Lateral teeth are straight or slightly curved; one the right valve and 2 in the left. In Nova Scotia there is the chance of confusing this species with the rayed form of *Elliptio complanata* and specimens should be examined carefully.

This species has a broad geographic range from the lower Great Lakes and Atlantic Canada south to South Carolina. In Canada it occurs in Ontario, Quebec, New Brunswick and Nova Scotia. It has not been reported from Prince Edward Island or Newfoundland and Labrador. Figure 12 shows a summary of the records for Nova Scotia. In northern and central Nova Scotia the main population centre appears to be Cumberland, Pictou and Antigonish counties and the St. Mary's River, Stewiacke River, Musquodoboit River, Shubenacadie River and in the Shubenacadie Canal system.

It has not been recorded in Cape Breton Island and is apparently absent from southwestern parts of the Province, although this area has not been fully surveyed. It is present in *Natural History of Nova Scotia* Regions 500 and 600 and in Units of Regions 300 and 400 where glacial till is sufficient to buffer acidic waters.

The habitat is both lakes and rivers with bottoms of gravel or sand and rarely mud. Strayer (1993) has characterized the habitat as larger streams.

Lampsilis radiata is a long-term brooder where fertilized eggs are retained by the female from August through to August of the following year when the glochidia are released and become parasitic in White perch or Smallmouth bass (See Table. 2). With the incremental expansion of the introduced Smallmouth bass, through illicit stockings, their range may expand (Hebda *et al.*, 1990).



Status rank has been determined by COSEWIC as 4 “secure” nationally and in New Brunswick and 3 “sensitive” in Nova Scotia . (Nova Scotia General Status “Yellow”)

***Leptodea ochracea* (Say, 1817)**
(=*Lampsilis ochracea* (Say, 1817))
Plate III: 27 and 28; Figure 14.

Tidewater mucket

H. D. Athearn was the first to report this species in Nova Scotia, in about 1954, from River Hebert, Cumberland County (Athearn and Clarke, 1962). Not long after A. Meachem Rick made additional records in Cumberland County and in Sydney River, Cape Breton County (Clarke and Meachem Rick, 1963). NSM staff found a new population in Placides Lake, Digby County (Wright, B 1979) and revisited Newville Lake, Cumberland County in July 1989. The NSDNR survey, begun in 1999, also discovered some additional sites in Cumberland County (Long Lake and Round Lake), and also revisited River Hebert and Newville Lake. The NSM has 13 specimen lots from Nova Scotia, 2 lots from New Brunswick and 1 lot for North Carolina.

The Tidewater mucket is a medium-sized mussel with shell up to 75mm long and 50mm high and ovate in form. Males are a little more elongated and bluntly-pointed posteriorly while the females are more rounded posteriorly. Growth rests are easily seen and there are concentric dark lines or wrinkles between growth lines. The colour of the periostracum is yellowish- or greenish-brown and specimens may be with or without fine green radiating lines which are not restricted to the posterior dorsal slope. The nacre is pink or salmon coloured. Weak pseudocardinal teeth are present just anterior to the umbones. The lateral teeth are weakly developed. For good descriptions and illustrations of *Leptodea ochracea* see Clarke (1981) and Nedeau *et al.* (2000).

The general distribution of *L. ochracea* is the Atlantic Coastal Plain from the Savannah River, Georgia north to southern New Brunswick and Nova Scotia, which are the only populations in Canada. In Nova Scotia all known localities are close to the coast with records from Sydney River, Cape Breton County, Tantramar Marshes (Round Lake and Long Lake), Newville Lake and River Hebert in Cumberland County and Placides Lake, Digby County. *Natural History of Nova Scotia* Units 411, 532, 581 and 585 and District 560.

Strayer (1993) has suggested that the main habitat preferred by *L. ochracea* is tidal waters, but in Nova Scotia most habitats are small lakes and some streams. All streams drain to either the Atlantic Ocean directly or via the Bay of Fundy and sites are no more than 15km from the coast. The associated bottom types are sand or mud. The pH, where recorded, is generally high (alkaline) 6.5 to 7.5 (Alexander *et al.*, 1985).

Leptodea ochracea is a long-term brooder where eggs are fertilized in late summer and released the following spring. The host fish in Nova Scotia is Gaspereau (Alewife).

The status rank has been determined by COSEWIC as 4 “secure” nationally and in New Brunswick, but 3 “sensitive” in Nova Scotia. (Nova Scotia General Status “Yellow”)

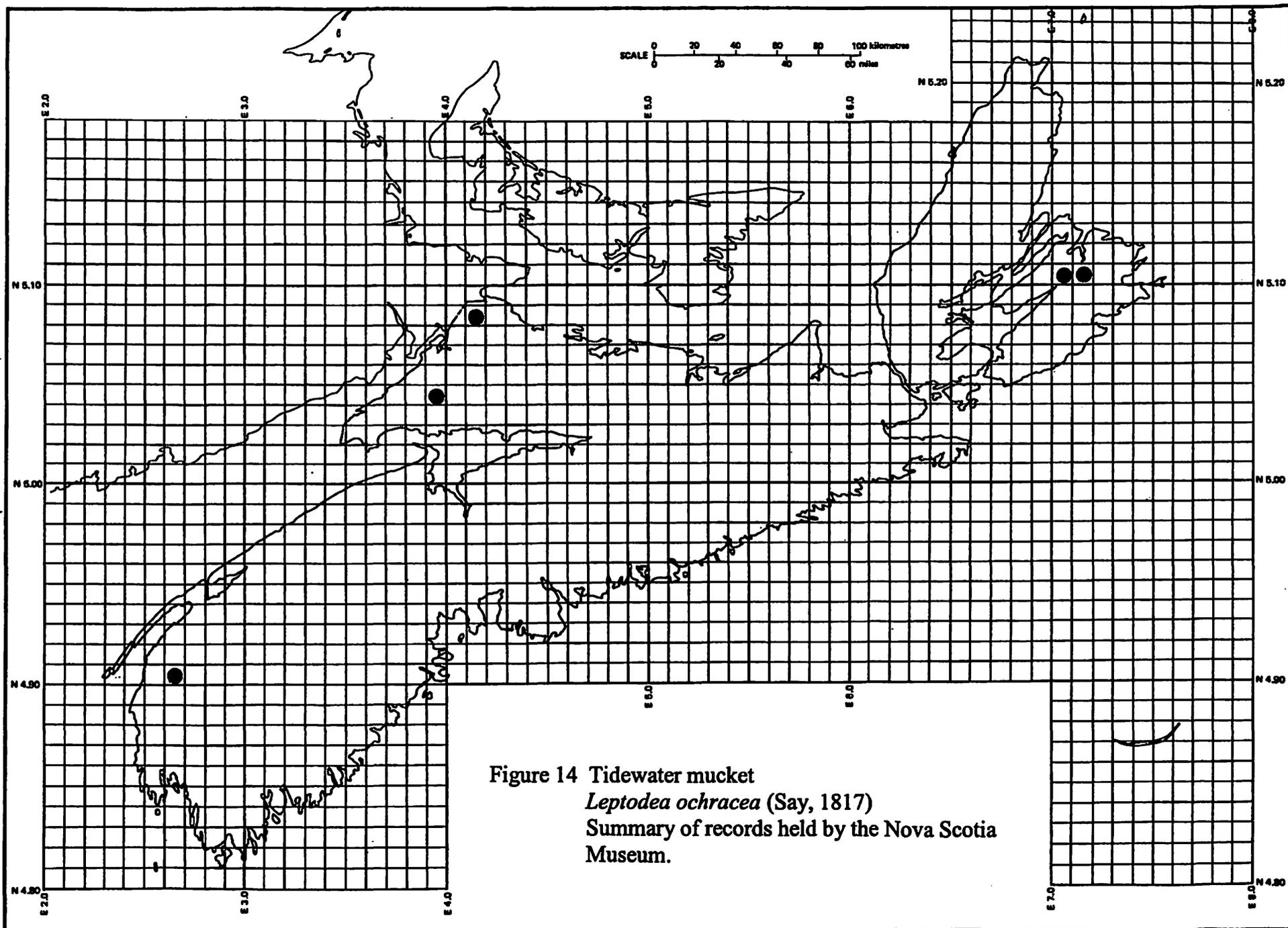


Figure 14 Tidewater mucket
Leptodea ochracea (Say, 1817)
 Summary of records held by the Nova Scotia
 Museum.

Recommendations for Future Work (not in order of priority)

1. Survey for freshwater mussels should be continued to complete the coverage of Nova Scotia, in particular southwestern areas; Annapolis, Digby, Yarmouth, Shelburne and Lunenburg counties, the interior of Halifax County, southern Cumberland and Colchester counties and Cape Breton Highlands. The methods used by NSDNR in the 1999-2003 study should be employed to obtain comparative data.
2. University-based research should be encouraged to add to our knowledge of breeding and host/parasite relationships, ecology and genetics of local mussel species.
3. Several sites with good species diversity and historic data should be established as monitoring sites. Provincial parks can provide some level of protection at these sites, e.g. Newville Lake (Halfway River Provincial Park), Cumberland County, Lochaber Lake (Lochaber Lake Provincial Park), Guysborough County.
4. Analyses of NSDNR results to look at ecological aspects e.g. *Elliptio complanata* radiate forms.
5. Initial steps should be taken to understand the diversity, distribution and ecology of the Sphaeriidae in Nova Scotia.
6. During the course of regular fieldwork maintain a watch for invasive Zebra and Quagga mussels which are currently a major threat to native freshwater mussels in Canada.
7. Consideration should be given to preparation of a popular field guide to freshwater mussels in Atlantic Canada.



1. *Margaritifera margaritifera*,
136mm, Cat. no. 953.007.001



2. *Margaritifera margaritifera*,
136mm, Cat. no. 953.007.001



3. *Elliptio complanata*,
85mm, Cat. no. 16638



4. *Elliptio complanata*,
85mm, Cat. no. 16638



5. *Elliptio complanata*,
rayed form, 65mm, Cat. no. 16465



6. *Alasmidonta varicosa*,
61.5mm, Cat. no. 16652



7. *Alasmidonta varicosa*,
61.5mm, Cat. no. 16652



8. *Alasmidonta undulata*,
42mm, Cat. no. 987.040.007



9. *Alasmidonta undulata*,
42mm, Cat. no. 987.040.007

Plate II. Freshwater mussels cited in text, *Alasmidonta heterodon* to *Anodonta implicata*



10. *Alasmidonta heterodon*,
35mm, Cat. no. 948.067.001



11. *Alasmidonta heterodon*,
35mm, Cat. no. 948.067.001



12. *Strophitus undulatus*,
60mm, Cat. no. 16382



13. *Strophitus undulatus*,
60mm, Cat. no. 16382



14. *Pyganodon cataracta*,
102.5mm, Cat. no. 953.009.000



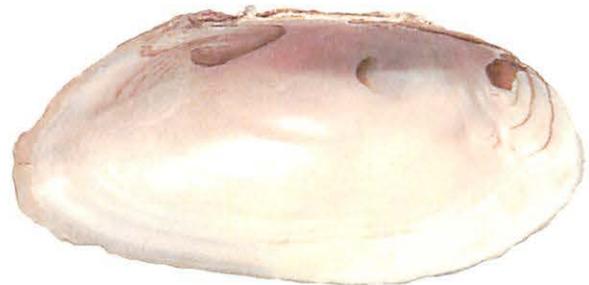
15. *Pyganodon cataracta*,
juv., 26mm, Cat. no. 977.250.001



16. *Pyganodon cataracta*,
102.5mm, Cat. no. 953.009.000



17. *Anodonta implicata*,
142mm, Cat. no. 975.210.001



18. *Anodonta implicata*,
142mm, Cat. no. 975.210.001



19. *Lampsilis cariosa*,
female, 74mm, Cat. no. 978.045.005



20. *Lampsilis cariosa*,
female, 74mm, Cat. no. 978.045.005



21. *Lampsilis cariosa*,
male, 88mm, Cat. no. 16413



22. *Lampsilis cariosa*,
male, 88mm, Cat. no.



23. *Lampsilis radiata*,
77mm, Cat. no. 16482



24. *Lampsilis radiata*,
77mm, Cat. no. 16482



25. *Leptodea ochracea*,
86mm, Cat. no. 979.133.001



26. *Leptodea ochracea*,
86mm, Cat. no. 979.133.001



27. *Leptodea ochracea*,
rayed form, 69mm, Cat. no. 979.133.001



28. *Leptodea ochracea*,
rayed form, 69mm, Cat. no. 979.133.001

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Appendix I

- i Field-generated Mussel Survey Data form
- ii Nova Scotia Museum Invertebrate Data record
- iii MIMS record report

INVERTEBRATE DATA RECORD

N.S. MUSEUM OF NATURAL HISTORY

Reference:

Acc. # _____ Previous Cat. # _____ Cat. # 16746No. of Specimens: 1 Preservative: dmSpecimen Nature: ~~shell~~ pair of shells Condition of Specimen: _____

Permanent Location (Unit/Shelf): _____

Identification:

Taxonomic File #: _____ Phylum: MolluscaClass: Bivalvia Order: _____Family: UnionidaeGenus: Alasmidonta Species: undulataSubspecies: _____ Authority: (Say, 1817)Determined by: Derek S. Davis, J. Costello, B. Galvez Date: 7 Oct. 2004

References: _____

Specific information:

Sex: ♂ ♀ ? Maturity: _____

Food Plant: _____ Host: _____

Associated Species: _____

Habitat: freshwater lake, bottom: gravel, sand and silt.Remarks: only a few shells found. see DNR Mussel survey data form.

Locality:

Country: CA Prov./State: NS. County: Halifax, HRMExact locality: Second Lake, Site #1 Lower SackvilleMap Book Ref.: 20-E.4. PSB/YS/C2 Lat: _____ Long.: _____ UTM Reference: 6447274 E 4959250 N

Ocean: _____ Sea: _____ Bay/Gulf/Estuary: _____

Collector: DNR, J. Costello and B. Galvez Date: 2004-06-24Collection Method: 30 minute survey of shoreline on foot.Recorded By: Derek S. Davis Date: 18 Oct. 2004 Entered in Computer By: H. P. [Signature] Date: 22-I-05

PTO to add additional info

Class: Molluscs

16746-shell; dry

Date of Birth: 2005-01-22 D
 Date of Change: 2005-11-04 D
 Institution: NSM
 Department: Zoology
 Quantity: 1
 Orig Continent: North America
 Orig Country: Canada
 OrigProvTerr: Nova Scotia
 Orig_County: Halifax
 Catalogue_No: 16746
 Cataloguer: Davis, D.S.
 Catalogue_Date: 2004-10-18 D
 Cataloguer_Rmks: 1 pair
 Museum Collector: Costelo, Jenny & Butch Galvez, DNR
 Collection Method: 30 minute survey of shoreline on foot
 Perm Loc Site: Natural History Coll
 Perm_Loc_Unit: Invertebrata 34
 Inventory Date: 2005-06-01 M
 Entry_Operator: Bell, Sarah; Pezzack, Leslie
 Date_Entered: 2005-01-22 D
 Discipline: Molluscs
 Phylum Division: Mollusca
 Class: Bivalvia
 NHOrder: Unionoida
 Family: Unionidae
 Genus: Alasmidonta
 Species: undulata
 Sp Author: (Say)
 Species Date: 1817
 Taxonomic File No: 077.09.01
 Identifier: Costelo, Jenny, Butch Galvez & D.S. Davis
 Spec Nature: shell; dry
 Spec Com Name: triangle floater
 Date Coll: 2004-06-24 D
 Date Coll Mth: Jun
 Collector Rmks: only a few shells found
 Preservative: dry
 Type of Rec: worksheet
 TerrestAqua: aquatic
 Habitat Rmks: freshwater lake
 Substrate: gravel, sand and silt
 General_Rmks: See DNR mussel survey data form
 Locality_Name: Second Lake
 Locality Desc: Lower Sackville; Site # 1
 Latitude: 444700 N
 Longitude: 0633900 W
 UTM Easting: 0447274
 UTM Northing: 4959250
 Map_Ref: 20E4 (1979); 58Y5 C2 (2001)
 Geo_Ref_Point: (44.783333, -63.650000)

Appendix II

Unionacea specimen lots from Nova Scotia in MIMS database.

Note: not all fields have been included in this summary table. See the example presented in Appendix I.

Freshwater Mussels
Nova Scotia Records

Genus	Species	Catalogue No.	County	Locality	Date Collected	Collector
<i>Alasmidonta</i>	<i>undulata</i>	15878	Antigonish	Copper Lake	1999-08-03	Young, M. & S. MacPhee
<i>Alasmidonta</i>	<i>undulata</i>	16650	Antigonish	Copper Lake	2001-07-01	Pulsifer, M., S. McChesney & J. Duncan
<i>Alasmidonta</i>	<i>undulata</i>	16649	Antigonish	Loch Katrine	2001-07-01	McChesney, S. & J. Duncan
<i>Alasmidonta</i>	<i>undulata</i>	16158	Colchester	River Hebert	2001-07-24	Hall, R.
<i>Alasmidonta</i>	<i>undulata</i>	16113	Colchester	St. Andrews River	2001-07-31	Hall, R.
<i>Alasmidonta</i>	<i>undulata</i>	16198	Colchester	Stewiacke River	2001-07-31	Hall, R.
<i>Alasmidonta</i>	<i>undulata</i>	16110	Cumberland	Leake Lake	2001-07-26	Hall, R.
<i>Alasmidonta</i>	<i>undulata</i>	16637	Cumberland	Leake Lake	2003-08-28	Harris, D.
<i>Alasmidonta</i>	<i>undulata</i>	16121	Cumberland	Newville Lake	2001-07-26	Hall, R.
<i>Alasmidonta</i>	<i>undulata</i>	16122	Cumberland	Newville Lake	2001-07-26	Hall, R.
<i>Alasmidonta</i>	<i>undulata</i>	16145	Cumberland	Newville Lake	2001-07-26	Hall, R.
<i>Alasmidonta</i>	<i>undulata</i>	954.050.001	Cumberland	River Hebert	1954-07-04	Athearn, H. D.
<i>Alasmidonta</i>	<i>undulata</i>	16422	Halifax	First Lake	2002-07-04	N.S.D.N.R.
<i>Alasmidonta</i>	<i>undulata</i>	954.048.008	Halifax	Fish Lake	1954-07-13	Athearn, H. D.
<i>Alasmidonta</i>	<i>undulata</i>	954.048.006	Halifax	Fish Lake	1954-07-13	Athearn, H. D.
<i>Alasmidonta</i>	<i>undulata</i>	954.048.007	Halifax	Gays River	1954-07-13	Athearn, H. D.
<i>Alasmidonta</i>	<i>undulata</i>	987.040.007	Halifax	Lake Banook	1987-11-02	Davis, D. S.
<i>Alasmidonta</i>	<i>undulata</i>	954.048.009	Halifax	Lake William	1954-07-13	Athearn, H. D.
<i>Alasmidonta</i>	<i>undulata</i>	975.244.002	Halifax	Lower Egmont Lake	1975-07-30	Davis, D. S.
<i>Alasmidonta</i>	<i>undulata</i>	954.047.000	Halifax	Musquodoboit River	1954-07-07	Jenkins, M. T. & H.D. Athearn
<i>Alasmidonta</i>	<i>undulata</i>	975.242.001	Halifax	Musquodoboit River	1975-07-30	Davis, D. S.
<i>Alasmidonta</i>	<i>undulata</i>	16066	Halifax	Musquodoboit River	2001-08-24	Archibald, D.
<i>Alasmidonta</i>	<i>undulata</i>	16077	Halifax	Musquodoboit River	2001-09-14	Archibald, D.
<i>Alasmidonta</i>	<i>undulata</i>	902.009.001	Halifax	Rawdon River	1902-04-15	Piers, H.
<i>Alasmidonta</i>	<i>undulata</i>	16746	Halifax	Second Lake	2004-06-24	Costelo, J. & I. Galvez
<i>Alasmidonta</i>	<i>undulata</i>	948.066.000	Halifax	Shubenacadie River	1948-07-15	Athearn, H. D.
<i>Alasmidonta</i>	<i>undulata</i>	954.049.000	Hants	Kennetcook River	1954-07-05	Athearn, H. D.
<i>Alasmidonta</i>	<i>undulata</i>	15735	Hants	Kennetcook River	1999-08-10	Hebda, A.
<i>Alasmidonta</i>	<i>undulata</i>	16827	Hants	Kennetcook River	2005-08-16	Hebda, A.
<i>Alasmidonta</i>	<i>undulata</i>	16829	Hants	Kennetcook River	2005-09-03	Gilhen, J. & D. Bridgehouse
<i>Alasmidonta</i>	<i>undulata</i>	978.048.001	Hants	Nine Mile River	1978-07-26	Davis, D. S. & C.R. Davis
<i>Alasmidonta</i>	<i>undulata</i>	969.148.003	Richmond	Pottie Lake	1969-10-30	Wright, B.
<i>Alasmidonta</i>	<i>varicosa</i>	953.008.000	Annapolis	Annapolis River	1953-07-04	Not recorded
<i>Alasmidonta</i>	<i>varicosa</i>	15875	Antigonish	Lochaber Lake	1999-08-03	Pulsifer, M.
<i>Alasmidonta</i>	<i>varicosa</i>	16107	Cumberland	Mattatall Lake	2001-08-01	Hall, R.
<i>Alasmidonta</i>	<i>varicosa</i>	16376	Cumberland	Mattatall Lake	2002-08-26	Hall, R.

Freshwater Mussels
Nova Scotia Records

Genus	Species	Catalogue No.	County	Locality	Date Collected	Collector
<i>Alasmidonta</i>	<i>varicosa</i>	975.230.002	Cumberland	Wallace River	1975-07-23	Davis, D. S. & P. McClung
<i>Alasmidonta</i>	<i>varicosa</i>	973.090.003	Guysborough	East River St. Marys	1973-06-05	Davis, D. S. & P.S. Doleman
<i>Alasmidonta</i>	<i>varicosa</i>	946.018.000	Guysborough	St. Marys River	1946-07-01	Athearn, H. D.
<i>Alasmidonta</i>	<i>varicosa</i>	16652	Pictou	Eden Lake	2001-07-25	McChesney, S. & J. Duncan
<i>Alasmidonta</i>	<i>varicosa</i>	16651	Pictou	St. Marys River	2001-07-25	McChesney, S. & J. Duncan
<i>Anodonta</i>	<i>implicata</i>	16509	Annapolis	Annapolis River	2002-07-07	Spencer, S.
<i>Anodonta</i>	<i>implicata</i>	15900	Antigonish	Camerons Lakes	1999-08-03	Not recorded
<i>Anodonta</i>	<i>implicata</i>	969.151.002	Antigonish	Lochaber Lake	1969-06-17	Gilhen, J. & P.S. Doleman
<i>Anodonta</i>	<i>implicata</i>	15876	Antigonish	Lochaber Lake	1999-08-03	Young, M. & S. MacPhee
<i>Anodonta</i>	<i>implicata</i>	11216	Cape Breton	Blacketts Lake	1989-06-29	Davis, D. S.
<i>Anodonta</i>	<i>implicata</i>	16129	Cape Breton	Blacketts Lake	2001-10-03	Stewart, H.
<i>Anodonta</i>	<i>implicata</i>	16522	Cape Breton	Gabarus Lake	2001-07-31	Gouthro, D. & W. MacLean
<i>Anodonta</i>	<i>implicata</i>	978.045.003	Cape Breton	Gillis Lake	1978-07-13	Davis, D. S.
<i>Anodonta</i>	<i>implicata</i>	952.010.002	Cape Breton	MacMullin Lake	1952-07-04	Athearn, H. D.
<i>Anodonta</i>	<i>implicata</i>	952.010.001	Cape Breton	Mira River	1952-07-04	Athearn, H. D.
<i>Anodonta</i>	<i>implicata</i>	977.236.003	Cape Breton	Sydney River	1977-07-28	Wilson, A.
<i>Anodonta</i>	<i>implicata</i>	11221	Cape Breton	Sydney River	1989-06-19	Wright, B.
<i>Anodonta</i>	<i>implicata</i>	16443	Cumberland	Black River	2000-06-20	Hall, R.
<i>Anodonta</i>	<i>implicata</i>	16155	Cumberland	Chase Lake	2001-09-19	Hall, R.
<i>Anodonta</i>	<i>implicata</i>	16178	Cumberland	Dewar River	2001-06-19	Hall, R.
<i>Anodonta</i>	<i>implicata</i>	16408	Cumberland	Long Lake	1999-09-21	Hall, R.
<i>Anodonta</i>	<i>implicata</i>	16381	Cumberland	Long Lake	2002-08-27	Hall, R.
<i>Anodonta</i>	<i>implicata</i>	16779	Cumberland	Long Lake	2004	Harris, D.
<i>Anodonta</i>	<i>implicata</i>	973.575.000	Cumberland	Maccan River	1973	McLeod, E. C.
<i>Anodonta</i>	<i>implicata</i>	16375	Cumberland	Mattatall Lake	2002-08-26	Hall, R.
<i>Anodonta</i>	<i>implicata</i>	16417	Cumberland	Missaguash River	1999-09-14	N.S.D.N.R.
<i>Anodonta</i>	<i>implicata</i>	16146	Cumberland	Newville Lake	2001-07-26	Hall, R.
<i>Anodonta</i>	<i>implicata</i>	16119	Cumberland	Newville Lake	2001-07-26	Hall, R.
<i>Anodonta</i>	<i>implicata</i>	16386	Cumberland	Patten Lake	2002-09-26	Hall, R.
<i>Anodonta</i>	<i>implicata</i>	16431	Cumberland	Round Lake	2000-06-28	Hall, R.
<i>Anodonta</i>	<i>implicata</i>	16152	Cumberland	Welton Lake	2001-07-25	Hall, R.
<i>Anodonta</i>	<i>implicata</i>	16056	Digby	Hunters Lake	2001-09-11	Archibald, D. & A. Jackson
<i>Anodonta</i>	<i>implicata</i>	15829	Guysborough	Archibalds Mill Lake	1999-08-25	Young, M. & S. MacPhee
<i>Anodonta</i>	<i>implicata</i>	15860	Guysborough	Charlie Lake	1999-08-12	Young, M. & S. MacPhee
<i>Anodonta</i>	<i>implicata</i>	15933	Guysborough	Cumminger Lake	1999-08-13	Not recorded
<i>Anodonta</i>	<i>implicata</i>	973.090.004	Guysborough	East River St. Marys	1973-06-05	Davis, D. S. & P.S. Doleman

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<i>Anodonta</i>	<i>implicata</i>	15923	Guysborough	George Lake	2000-07-06	Not recorded
<i>Anodonta</i>	<i>implicata</i>	15898	Guysborough	Glencross Lake	1999-08-25	Young, M. & S. MacPhee
<i>Anodonta</i>	<i>implicata</i>	15833	Guysborough	Island Lake	1999-08-25	Young, M. & S. MacPhee
<i>Anodonta</i>	<i>implicata</i>	15913	Guysborough	McLeod Lake	2000-06-20	Not recorded
<i>Anodonta</i>	<i>implicata</i>	15862	Guysborough	Narrow Lake	1999-08-12	Young, M. & S. MacPhee
<i>Anodonta</i>	<i>implicata</i>	15854	Guysborough	Narrow Lake	1999-08-12	Young, M. & S. MacPhee
<i>Anodonta</i>	<i>implicata</i>	15928	Guysborough	North Branch Lake	2000-07-14	Not recorded
<i>Anodonta</i>	<i>implicata</i>	15930	Guysborough	North Branch Lake	2000-07-14	Not recorded
<i>Anodonta</i>	<i>implicata</i>	15856	Guysborough	Salmon River Lake	1999-08-12	Young, M. & S. MacPhee
<i>Anodonta</i>	<i>implicata</i>	15839	Guysborough	St Marys River	1999-08-27	Pulsifer, M.
<i>Anodonta</i>	<i>implicata</i>	973.084.002	Guysborough	St. Marys River	1973-06-05	Davis, D. S. & P.S. Doleman
<i>Anodonta</i>	<i>implicata</i>	980.031.001	Guysborough	St. Marys River	1980-08-13	Davis, D. S.
<i>Anodonta</i>	<i>implicata</i>	980.030.001	Guysborough	Two Mile Lake	1980-08-13	Davis, D. S.
<i>Anodonta</i>	<i>implicata</i>	986.104.000	Guysborough	Two Mile Lake	1985-07-01	Wilson, V.
<i>Anodonta</i>	<i>implicata</i>	15808	Guysborough	Two Mile Lake	1999-08-13	Young, M. & S. MacPhee
<i>Anodonta</i>	<i>implicata</i>	954.052.002	Halifax	Fish Lake	1954-07-13	Athearn, H. D.
<i>Anodonta</i>	<i>implicata</i>	16098	Halifax	Fletchers Lake	2001-07-20	Costelo, J.
<i>Anodonta</i>	<i>implicata</i>	986.134.001	Halifax	Kinsac Lake	1986-05-15	Wright, B.
<i>Anodonta</i>	<i>implicata</i>	16456	Halifax	Kinsac Lake	2002-07-09	N.S.D.N.R.
<i>Anodonta</i>	<i>implicata</i>	954.052.001	Halifax	Lake William	1954-07-13	Athearn, H. D.
<i>Anodonta</i>	<i>implicata</i>	16095	Halifax	Lake William	2001-07-20	Costelo, J.
<i>Anodonta</i>	<i>implicata</i>	14560	Halifax	Morris Lake	1997-10-16	Davis, D. S.
<i>Anodonta</i>	<i>implicata</i>	16082	Halifax	Morris Lake	2001-07-17	Archibald, D. & J. Costelo
<i>Anodonta</i>	<i>implicata</i>	16084	Halifax	Morris Lake	2001-07-17	Archibald, D. & J. Costelo
<i>Anodonta</i>	<i>implicata</i>	954.051.000	Halifax	Musquodoboit River	1954-07-07	Athearn, H. D.
<i>Anodonta</i>	<i>implicata</i>	16065	Halifax	Musquodoboit River	2001-08-24	Archibald, D.
<i>Anodonta</i>	<i>implicata</i>	16068	Halifax	Musquodoboit River	2001-08-24	Archibald, D.
<i>Anodonta</i>	<i>implicata</i>	16078	Halifax	Musquodoboit River	2001-09-14	Archibald, D.
<i>Anodonta</i>	<i>implicata</i>	11805	Halifax	Powder Mill Lake	1992-11-02	Belford, S.
<i>Anodonta</i>	<i>implicata</i>	16461	Halifax	Powder Mill Lake	2002-10-07	Costelo, J. & D. Archibald
<i>Anodonta</i>	<i>implicata</i>	16092	Halifax	Russell Lake	2001-07-17	Archibald, D. & J. Costelo
<i>Anodonta</i>	<i>implicata</i>	16404	Halifax	Sackville River	2003-09-16	March, K.
<i>Anodonta</i>	<i>implicata</i>	16810	Halifax	Sackville River	2005-07-19	Chaisson, K. & J. Costelo
<i>Anodonta</i>	<i>implicata</i>	16822	Halifax	Sackville River	2005-08-11	Gilhen, J.
<i>Anodonta</i>	<i>implicata</i>	16104	Halifax	Shubenacadie	2001-08-29	Archibald, D.
<i>Anodonta</i>	<i>implicata</i>	16361	Halifax	Shubenacadie Canal	2001-05-29	Archibald, D.

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<i>Anodonta</i>	<i>implicata</i>	975.236.001	Halifax	Shubenacadie Grand Lake	1975-07-25	McClung, P.
<i>Anodonta</i>	<i>implicata</i>	16136	Halifax	Shubenacadie Grand Lake	2001-08-18	Stewart, H.
<i>Anodonta</i>	<i>implicata</i>	16425	Halifax	Shubenacadie Grand Lake	2002-10-16	Costelo, J.
<i>Anodonta</i>	<i>implicata</i>	948.073.000	Halifax	Shubenacadie River	1948-07-15	Atheam, H. D.
<i>Anodonta</i>	<i>implicata</i>	16451	Halifax	Shubenacadie River	2000-07-25	Davis, D. S.
<i>Anodonta</i>	<i>implicata</i>	16450	Halifax	Shubenacadie River	2000-08-03	Archibald, D.
<i>Anodonta</i>	<i>implicata</i>	16434	Halifax	Shubenacadie River	2000-08-13	Hall, R.
<i>Anodonta</i>	<i>implicata</i>	16101	Halifax	Shubenacadie River	2001-07-04	Archibald, D.
<i>Anodonta</i>	<i>implicata</i>	16488	Hants	Avon River	2001-07-20	N.S.D.N.R.
<i>Anodonta</i>	<i>implicata</i>	975.217.002	Hants	Lily Lake	1975-07-09	Davis, D. S. & P. McClung
<i>Anodonta</i>	<i>implicata</i>	16500	Hants	Lily Lake	2002-08-07	N.S.D.N.R.
<i>Anodonta</i>	<i>implicata</i>	970.036.002	Hants	Little Lake	1970-11-08	Wiles, M.
<i>Anodonta</i>	<i>implicata</i>	974.207.001	Hants	Maitland Millpond	1974-08-27	Davis, D. S.
<i>Anodonta</i>	<i>implicata</i>	16489	Hants	Pesaquid Lake	2002-09-20	N.S.D.N.R.
<i>Anodonta</i>	<i>implicata</i>	975.210.001	Hants	Shubenacadie	1975-06-23	Davis, D. S. & P. McClung
<i>Anodonta</i>	<i>implicata</i>	11806	Hants	Shubenacadie River	1992-11-12	Belford, S.
<i>Anodonta</i>	<i>implicata</i>	16102	Hants	Shubenacadie River	2001-07-01	Archibald, D.
<i>Anodonta</i>	<i>implicata</i>	969.150.003	Inverness	MacIntyre Lake	1969-10-30	Wright, B.
<i>Anodonta</i>	<i>implicata</i>	972.701.001	Inverness	MacLellan Brook	1972-09-13	Gilhen, J. & W.F. Weller
<i>Anodonta</i>	<i>implicata</i>	952.014.001	Inverness	Northeast Margaree River	1952-07-04	Atheam, H. D.
<i>Anodonta</i>	<i>implicata</i>	971.519.000	Kings	Gaspereau Lake	1968-10-23	Davis, D. S.
<i>Anodonta</i>	<i>implicata</i>	971.136.001	Kings	Gaspereau Lake	1968-10-23	Davis, D. S. et al
<i>Anodonta</i>	<i>implicata</i>	969.117.003	Kings	Gaspereau Lake	1969-10-17	Wright, B.
<i>Anodonta</i>	<i>implicata</i>	952.011.000	Kings	Gaspereau River	1952-07-06	Atheam, H. D.
<i>Anodonta</i>	<i>implicata</i>	16525	Richmond	Long Lake	2001-07-30	Gouthro, D. & W. MacLean
<i>Anodonta</i>	<i>implicata</i>	980.040.001	Yarmouth	Agard Lake	1980-09-18	Davis, D. S.
<i>Anodonta</i>	sp.	15804	Guysborough	Cummings Lake	1999-08-13	Young, M. & S. MacPhee
<i>Anodonta</i>	sp.	973.445.008	Kings	Canard River	1973-11-09	Wright, B., F.W. Scott & P. McClung
<i>Anodonta</i>	sp.	969.148.002	Richmond	Pottie Lake	1969-10-30	Wright, B.
<i>Anodonta</i>	sp.	969.149.002	Richmond	Shaw Lake	1969-10-30	Wright, B.
<i>Elliptio</i>	<i>complanata</i>	953.017.000	Annapolis	Annapolis River	1953-07-05	Atheam, H. D.
<i>Elliptio</i>	<i>complanata</i>	981.108.001	Annapolis	Beelers Lake	1981-06-01	R. F. Reekes Fisheries
<i>Elliptio</i>	<i>complanata</i>	14267	Annapolis	Big Dam East Lake	1987-05-01	Schell, V. A. & J. Kerekes
<i>Elliptio</i>	<i>complanata</i>	953.018.000	Annapolis	Springfield Lake	1953-07-04	Atheam, H. D.
<i>Elliptio</i>	<i>complanata</i>	975.258.001	Annapolis	View Lake	1975-08-20	Davis, D. S. & P. McClung
<i>Elliptio</i>	<i>complanata</i>	15883	Antigonish	Cameron Lake	1999-08-03	Young, M. & S. MacPhee

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<i>Elliptio</i>	<i>complanata</i>	980.016.003	Antigonish	Cameron's Lakes	1980-07-09	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	15879	Antigonish	Copper Lake	1999-08-03	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	15842	Antigonish	Flynn Lake	1999-08-10	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	980.007.002	Antigonish	Gaspereaux Lake	1980-06-13	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	15891	Antigonish	Gillis Lake	1999-08-03	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	15871	Antigonish	Jacksons Lake	1999-08-09	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	15850	Antigonish	Jacksons Lake	1999-08-09	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	969.151.001	Antigonish	Lochaber Lake	1969-06-17	Gilhen, J. & P.S. Doleman
<i>Elliptio</i>	<i>complanata</i>	973.092.001	Antigonish	Lochaber Lake	1973-06-05	Davis, D. S. & P.S. Doleman
<i>Elliptio</i>	<i>complanata</i>	15877	Antigonish	Lochaber Lake	1999-08-03	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	15669	Antigonish	Pomquet River	1999-04-22	Hebda, A.
<i>Elliptio</i>	<i>complanata</i>	980.029.002	Antigonish	South River Lake	1980-08-13	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	15845	Antigonish	South River Lake	1999-08-11	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	980.018.002	Antigonish	St. Josephs Lake	1980-07-09	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	15866	Antigonish	St. Josephs Lake	1999-08-05	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	11212	Cape Breton	Blacketts Lake	1989-06-29	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	15730	Cape Breton	Blacketts Lake	1999-06-21	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	16130	Cape Breton	Blacketts Lake	2001-10-03	Stewart, H.
<i>Elliptio</i>	<i>complanata</i>	978.045.004	Cape Breton	Gillis Lake	1978-07-13	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	16670	Cape Breton	Gillis Lake	1990-07-05	Wright, B. & J. Gilhen
<i>Elliptio</i>	<i>complanata</i>	977.236.001	Cape Breton	Sydney River	1977-07-28	Wilson, A.
<i>Elliptio</i>	<i>complanata</i>	11220	Cape Breton	Sydney River	1989-06-19	Wright, B.
<i>Elliptio</i>	<i>complanata</i>	11219	Cape Breton	Sydney River	1989-06-19	Wright, B.
<i>Elliptio</i>	<i>complanata</i>	11210	Cape Breton	Sydney River	1989-06-29	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	15731	Cape Breton	Sydney River	1999-06-23	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	16164	Colchester	Kennedy Lake	2001-09-18	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16403	Colchester	Lake Brook	2003-06-24	March, K.
<i>Elliptio</i>	<i>complanata</i>	16400	Colchester	Lake Brook	2003-08-24	March, K.
<i>Elliptio</i>	<i>complanata</i>	16160	Colchester	River Hebert	2001-07-24	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16681	Colchester	Shortts Lake	1982-07-07	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	16142	Colchester	Shortts Lake	2001-08-10	Stewart, H.
<i>Elliptio</i>	<i>complanata</i>	16200	Colchester	South Branch Stewiacke River	2001-07-31	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16115	Colchester	St. Andrews River	2001-07-31	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	951.019.002	Colchester	Stewiacke River	1951-07-01	Athearn, H. D.
<i>Elliptio</i>	<i>complanata</i>	951.021.000	Colchester	Stewiacke River	1951-07-01	Athearn, H. D.
<i>Elliptio</i>	<i>complanata</i>	16390	Colchester	Stewiacke River	1999-08-31	Hall, R.

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<i>Elliptio</i>	<i>complanata</i>	16415	Colchester	Stewiacke River	1999-08-31	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16197	Colchester	Stewiacke River	2001-07-31	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16196	Colchester	Stewiacke River	2001-07-31	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16190	Colchester	Stewiacke River	2001-09-21	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16643	Colchester	Stewiacke River	2003-08-28	Gilhen, J. & A. Hebda
<i>Elliptio</i>	<i>complanata</i>	16396	Cumberland	Angevine Lake	1999-08-04	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16161	Cumberland	Angevine Lake	2001-08-01	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16412	Cumberland	Big Lake	1999-08-25	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16774	Cumberland	Big Lake	2001-06-12	Hebda, A, J. Gilhen & N. D' Eon
<i>Elliptio</i>	<i>complanata</i>	16442	Cumberland	Black River	2000-06-20	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16156	Cumberland	Chase Lake	2001-09-19	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	951.019.001	Cumberland	Halfway River	1951-07-01	Atheam, H. D.
<i>Elliptio</i>	<i>complanata</i>	978.082.001	Cumberland	Ibbitson Brook	1978-07-18	Gilhen, J. & E. Claridge
<i>Elliptio</i>	<i>complanata</i>	975.224.002	Cumberland	Lake Killarney	1975-07-18	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	16167	Cumberland	Lake Killarney	2001-08-10	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16638	Cumberland	Leake Lake	2003-08-28	Harris, D.
<i>Elliptio</i>	<i>complanata</i>	16410	Cumberland	Long Lake	1999-09-21	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16409	Cumberland	Long Lake	1999-09-21	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16380	Cumberland	Long Lake	2002-08-27	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16778	Cumberland	Long Lake	2004	Harris, D.
<i>Elliptio</i>	<i>complanata</i>	16378	Cumberland	Mattatall Lake	1999-08-26	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16106	Cumberland	Mattatall Lake	2001-08-01	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16787	Cumberland	Mosleys Pond	1999-09-15	Hebda, A. & J. Gilhen
<i>Elliptio</i>	<i>complanata</i>	16788	Cumberland	Mosleys Pond	1999-09-25	Gilhen, J.
<i>Elliptio</i>	<i>complanata</i>	11073	Cumberland	Newville Lake	1989-07-24	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	16455	Cumberland	Newville Lake	1999-06-24	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16453	Cumberland	Newville Lake	1999-08-06	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16149	Cumberland	Newville Lake	2001-07-26	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16124	Cumberland	Newville Lake	2001-07-26	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16385	Cumberland	Patten Lake	2002-09-26	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	953.016.001	Cumberland	River Hebert	1953-07-11	Atheam, H. D.
<i>Elliptio</i>	<i>complanata</i>	954.061.000	Cumberland	River Hebert	1954-07-04	Atheam, H. D.
<i>Elliptio</i>	<i>complanata</i>	15396	Cumberland	River Hebert	1998-09-11	Gilhen, J.
<i>Elliptio</i>	<i>complanata</i>	16429	Cumberland	Round Lake	2000-06-28	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16392	Cumberland	Shinimicas River	1999-08-11	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16388	Cumberland	Tidnish River	1999-09-21	Hall, R.

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<i>Elliptio</i>	<i>complanata</i>	16436	Cumberland	Tillits Creek	2000-06-06	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16150	Cumberland	Welton Lake	2001-07-25	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16179	Cumberland	Wigmore Lake	2001-08-10	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	953.015.002	Digby	Bonang's Lake	1953-07-06	Atheam, H. D.
<i>Elliptio</i>	<i>complanata</i>	953.014.002	Digby	Cupits Lake	1953-07-06	Atheam, H. D.
<i>Elliptio</i>	<i>complanata</i>	3470	Digby	Little Wentworth Lake	1969-09-01	Sollows, J.
<i>Elliptio</i>	<i>complanata</i>	953.014.003	Digby	North Range	1953-07-06	Atheam, H. D.
<i>Elliptio</i>	<i>complanata</i>	979.133.002	Digby	Placides Lake	1979-04-25	Wright, B. & E. Claridge
<i>Elliptio</i>	<i>complanata</i>	981.103.001	Digby	Porcupine Lake	1981-07-15	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	15828	Guysborough	Archibalds Mill Lake	1999-08-25	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	15858	Guysborough	Charlie Lake	1999-08-12	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	15853	Guysborough	Country Harbour Lake	1999-08-13	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	15802	Guysborough	Cumminger Lake	1999-08-13	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	15916	Guysborough	Cumminger Lake	2000-06-20	N.S.D.N.R.
<i>Elliptio</i>	<i>complanata</i>	15816	Guysborough	Eight Island Lake	1999-08-17	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	15836	Guysborough	G Lake	1999-08-25	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	15865	Guysborough	Gaspereaux Lake	1999-08-03	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	15831	Guysborough	Glencross Lake	1999-08-25	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	15801	Guysborough	Glengel Lake	1999-08-13	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	15826	Guysborough	Goshen Lake	1999-08-25	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	15834	Guysborough	Island Lake	1999-08-25	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	15814	Guysborough	Kells Lake	1999-08-17	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	969.153.001	Guysborough	McKeen Lake	1969-06-17	Gilhen, J. & P.S. Doleman
<i>Elliptio</i>	<i>complanata</i>	15918	Guysborough	McLeod Lake	2000-06-20	N.S.D.N.R.
<i>Elliptio</i>	<i>complanata</i>	15903	Guysborough	Meaghers Lake	2000-06-16	N.S.D.N.R.
<i>Elliptio</i>	<i>complanata</i>	973.592.001	Guysborough	Melrose Lake	1972-06-19	Silver, J. & W. Johnson
<i>Elliptio</i>	<i>complanata</i>	15823	Guysborough	Morrisons Lake	1999-08-18	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	15861	Guysborough	Narrow Lake	1999-08-12	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	15924	Guysborough	North Branch Lake	2000-07-14	N.S.D.N.R.
<i>Elliptio</i>	<i>complanata</i>	15810	Guysborough	Olsen Lake	1999-08-17	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	15812	Guysborough	Pringle Lake	1999-08-17	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	15840	Guysborough	Salmon River Lake	1999-08-12	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	15919	Guysborough	Sheas Lake	2000-07-11	N.S.D.N.R.
<i>Elliptio</i>	<i>complanata</i>	15837	Guysborough	St Marys River	1999-08-27	Pulsifer, M.
<i>Elliptio</i>	<i>complanata</i>	971.523.000	Guysborough	St. Marys River	1971-08-10	Wright, B. & F.W. Scott
<i>Elliptio</i>	<i>complanata</i>	973.086.002	Guysborough	St. Marys River	1973-06-05	Davis, D. S.

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<i>Elliptio</i>	<i>complanata</i>	973.084.001	Guysborough	St. Marys River	c.1973	Davis, D. S. & P.S. Doleman
<i>Elliptio</i>	<i>complanata</i>	15844	Guysborough	Stewart Lake	1999-08-11	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	15910	Guysborough	Stewart Lake	2000-06-14	Not recorded
<i>Elliptio</i>	<i>complanata</i>	5555a	Guysborough	Stillwater	1976-07-20	Sollows, J.
<i>Elliptio</i>	<i>complanata</i>	973.091.001	Guysborough	Two Mile Lake	1977-06-05	Davis, D. S. & P.S. Doleman
<i>Elliptio</i>	<i>complanata</i>	980.030.002	Guysborough	Two Mile Lake	1980-08-13	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	15809	Guysborough	Two Mile Lake	1999-08-13	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	15895	Guysborough	Wallace Lake	1999-08-13	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	15807	Guysborough	Wallace Lake	1999-08-13	Young, M. & S. MacPhee
<i>Elliptio</i>	<i>complanata</i>	980.022.001	Halifax	Birch Cove	1980-07-23	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	16093	Halifax	Conrod Lake	2001-07-30	Ferguson, S.
<i>Elliptio</i>	<i>complanata</i>	11204	Halifax	Cooks Lake	1989-08-07	Parker, Etta
<i>Elliptio</i>	<i>complanata</i>	15908	Halifax	Crooked Lake	2000-06-14	N.S.D.N.R.
<i>Elliptio</i>	<i>complanata</i>	16423	Halifax	First Lake	2002-07-04	N.S.D.N.R.
<i>Elliptio</i>	<i>complanata</i>	954.065.001	Halifax	Fish Lake	1954-07-13	Athearn, H. D.
<i>Elliptio</i>	<i>complanata</i>	954.060.001	Halifax	Fish Lake	1954-07-13	Athearn, H. D.
<i>Elliptio</i>	<i>complanata</i>	954.060.002	Halifax	Gays River	1954-07-13	Athearn, H. D.
<i>Elliptio</i>	<i>complanata</i>	5515	Halifax	Grand Lake	1975-09-27	Sollows, J.
<i>Elliptio</i>	<i>complanata</i>	16457	Halifax	Kinsac Lake	2002-07-09	N.S.D.N.R.
<i>Elliptio</i>	<i>complanata</i>	16633	Halifax	Kinsac Lake	2003-10-24	Costelo, J.
<i>Elliptio</i>	<i>complanata</i>	987.040.009	Halifax	Lake Banook	1987-11-02	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	16753	Halifax	Lake Banook	2004-09-08	Galvez, I & J. Costelo
<i>Elliptio</i>	<i>complanata</i>	16754	Halifax	Lake Banook	2004-09-16	Galvez, B.
<i>Elliptio</i>	<i>complanata</i>	16483	Halifax	Lake Egmont	2002-10-01	Archibald, D.
<i>Elliptio</i>	<i>complanata</i>	16468	Halifax	Lake Egmont	2002-10-25	Archibald, D.
<i>Elliptio</i>	<i>complanata</i>	895.001.000	Halifax	Lake Micmac	1895	Piers, Harry
<i>Elliptio</i>	<i>complanata</i>	16751	Halifax	Lake Micmac	2004-09-08	Galvez, I & J. Costelo
<i>Elliptio</i>	<i>complanata</i>	16752	Halifax	Lake Micmac	2004-09-21	Galvez, I & J. Costelo
<i>Elliptio</i>	<i>complanata</i>	954.065.003	Halifax	Lake William	1954-07-13	Athearn, H. D.
<i>Elliptio</i>	<i>complanata</i>	16096	Halifax	Lake William	2001-07-20	Costelo, J.
<i>Elliptio</i>	<i>complanata</i>	16094	Halifax	Lake William	2001-07-20	Costelo, J.
<i>Elliptio</i>	<i>complanata</i>	954.065.002	Halifax	Lower Egmont Lake	1954-07-13	Athearn, H. D.
<i>Elliptio</i>	<i>complanata</i>	975.244.001	Halifax	Lower Egmont Lake	1975-07-30	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	16745	Halifax	Lower Sackville	2004-06-24	Galvez, I & J. Costelo
<i>Elliptio</i>	<i>complanata</i>	16748	Halifax	Lower Sackville	2004-06-25	Galvez, I & J. Costelo
<i>Elliptio</i>	<i>complanata</i>	14561	Halifax	Morris Lake	1997-10-16	Davis, D. S.

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<i>Elliptio</i>	<i>complanata</i>	16085	Halifax	Morris Lake	2001-07-17	Archibald, D. & J. Costelo
<i>Elliptio</i>	<i>complanata</i>	16086	Halifax	Morris Lake	2001-07-17	Archibald, D. & J. Costelo
<i>Elliptio</i>	<i>complanata</i>	954.064.000	Halifax	Musquodoboit River	1954-07-07	Athearn, H. D. & M.T. JenRins
<i>Elliptio</i>	<i>complanata</i>	954.062	Halifax	Musquodoboit River	1954-07-08	Athearn, H.D.
<i>Elliptio</i>	<i>complanata</i>	954.066.000	Halifax	Musquodoboit River	1954-07-08	Athearn, H. D.
<i>Elliptio</i>	<i>complanata</i>	971.186.001	Halifax	Musquodoboit River	1971-07-14	Davis, D. S. & L.M. Cameron
<i>Elliptio</i>	<i>complanata</i>	16080	Halifax	Musquodoboit River	1999-06-01	Archibald, D.
<i>Elliptio</i>	<i>complanata</i>	16420	Halifax	Musquodoboit River	1999-09-16	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16069	Halifax	Musquodoboit River	2001-08-24	Archibald, D.
<i>Elliptio</i>	<i>complanata</i>	16063	Halifax	Musquodoboit River	2001-08-24	Archibald, D.
<i>Elliptio</i>	<i>complanata</i>	16072	Halifax	Musquodoboit River	2001-09-14	Archibald, D.
<i>Elliptio</i>	<i>complanata</i>	16074	Halifax	Musquodoboit River	2001-09-14	Archibald, D.
<i>Elliptio</i>	<i>complanata</i>	16075	Halifax	Musquodoboit River	2001-09-14	Archibald, D.
<i>Elliptio</i>	<i>complanata</i>	969.144.001	Halifax	Petpeswick Lake	1969-07-04	Milligan, B. A. & P.S. Doleman
<i>Elliptio</i>	<i>complanata</i>	969.116.002	Halifax	Petpeswick Lake	1969-08-05	Doleman, P.S. & B.A. Milligan
<i>Elliptio</i>	<i>complanata</i>	902.010.000	Halifax	Rawdon River	1902-04-19	Piers, H.
<i>Elliptio</i>	<i>complanata</i>	954.060.003	Halifax	Rocky Lake	1954-07-13	Athearn, H. D.
<i>Elliptio</i>	<i>complanata</i>	16099	Halifax	Rocky Lake	2001-07-20	Costelo, J.
<i>Elliptio</i>	<i>complanata</i>	16458	Halifax	Rocky Lake	2002-07-09	N.S.D.N.R.
<i>Elliptio</i>	<i>complanata</i>	973.453.001	Halifax	Russell Lake	1972-07-24	Wright, B.
<i>Elliptio</i>	<i>complanata</i>	16090	Halifax	Russell Lake	2001-07-17	Archibald, D. & J. Costelo
<i>Elliptio</i>	<i>complanata</i>	16402	Halifax	Sackville River	2003-06-08	White, T.
<i>Elliptio</i>	<i>complanata</i>	16809	Halifax	Sackville River	2005-07-19	Chaisson, K. & J. Costelo
<i>Elliptio</i>	<i>complanata</i>	980.060.001	Halifax	Second Lake	1980-11-21	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	969.113.002	Halifax	Shubenacadie Grand Lake	1969-06-29	Doleman, P. S. & B.A. Milligan
<i>Elliptio</i>	<i>complanata</i>	970.025.000	Halifax	Shubenacadie Grand Lake	1970	Hiltz, Mrs. (FRB)
<i>Elliptio</i>	<i>complanata</i>	948.077.000	Halifax	Shubenacadie River	1948-07-15	Athearn, H. D.
<i>Elliptio</i>	<i>complanata</i>	16433	Halifax	Shubenacadie River	2000-08-13	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	980.027.001	Halifax	Tucker Lake	1980-08-10	Davis, D. S. & G. Davis
<i>Elliptio</i>	<i>complanata</i>	16462	Halifax	Tucker Lake	2002-07-09	N.S.D.N.R.
<i>Elliptio</i>	<i>complanata</i>	15734	Hants	Kennetcook River	2000-04-20	Hebda, A.
<i>Elliptio</i>	<i>complanata</i>	954.063.000	Hants	Kennetcook River	1954-07-05	Athearn, H. D.
<i>Elliptio</i>	<i>complanata</i>	15749	Hants	Kennetcook River	2000-07-18	Hebda, A.
<i>Elliptio</i>	<i>complanata</i>	16826	Hants	Kennetcook River	2005-08-16	Hebda, A.
<i>Elliptio</i>	<i>complanata</i>	16830	Hants	Kennetcook River	2005-09-03	Gilhen, J. & D. Bridgehouse
<i>Elliptio</i>	<i>complanata</i>	16465	Hants	Lewis Lake	2002-07-04	N.S.D.N.R.

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<i>Elliptio</i>	<i>complanata</i>	16785	Hants	Lewis Lake	2005-04-28	Hebda, A.
<i>Elliptio</i>	<i>complanata</i>	975.217.001	Hants	Lily Lake	1975-07-09	Davis, D. S. & P. McClung
<i>Elliptio</i>	<i>complanata</i>	16521	Hants	Lily Lake	2002-07-05	N.S.D.N.R.
<i>Elliptio</i>	<i>complanata</i>	16520	Hants	Lily Lake	2002-07-05	N.S.D.N.R.
<i>Elliptio</i>	<i>complanata</i>	978.048.002	Hants	Nine Mile River	1978-07-26	Davis, D. S. & C.R. Davis
<i>Elliptio</i>	<i>complanata</i>	16193	Hants	Nine Mile River	2001-07-20	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16168	Hants	Nine Mile River	2001-07-20	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16496	Hants	Nine Mile River	2002-07-17	N.S.D.N.R.
<i>Elliptio</i>	<i>complanata</i>	16495	Hants	Nine Mile River	2002-07-17	N.S.D.N.R.
<i>Elliptio</i>	<i>complanata</i>	16498	Hants	Nine Mile River	2002-11-05	N.S.D.N.R.
<i>Elliptio</i>	<i>complanata</i>	16399	Hants	Nine Mile River	2003-09-09	March, K.
<i>Elliptio</i>	<i>complanata</i>	16514	Hants	Savage Lake	2003-07-18	N.S.D.N.R.
<i>Elliptio</i>	<i>complanata</i>	16513	Hants	Savage Lake	2003-07-18	N.S.D.N.R.
<i>Elliptio</i>	<i>complanata</i>	972.137.001	Hants	Shubenacadie	1961-10-19	Ferguson, D. C.
<i>Elliptio</i>	<i>complanata</i>	975.210.002	Hants	Shubenacadie	1975-06-23	McClung, P & D.S. Davis
<i>Elliptio</i>	<i>complanata</i>	16100	Hants	Shubenacadie River	2001-07-09	Archibald, D.
<i>Elliptio</i>	<i>complanata</i>	16823	Hants	Shubenacadie River	2005-08-17	Gilhen, J.
<i>Elliptio</i>	<i>complanata</i>	16517	Hants	Woodward Sandford Lake	2000-08-26	Stoddard, D.
<i>Elliptio</i>	<i>complanata</i>	16610	Inverness	Basiles Brook	1999-08-10	MacLean, V., P. MacDonald & D. Anderson
<i>Elliptio</i>	<i>complanata</i>	11809	Inverness	Black River	1992-07-10	Gilhen, J. et al
<i>Elliptio</i>	<i>complanata</i>	16582	Inverness	Black River	1999-08-06	MacLean, V. & J. MacDonald
<i>Elliptio</i>	<i>complanata</i>	16583	Inverness	Black River	1999-08-06	MacLean, V. & J. MacDonald
<i>Elliptio</i>	<i>complanata</i>	16601	Inverness	Black River	1999-08-10	MacLean, V., P. MacDonald & D. Anderson
<i>Elliptio</i>	<i>complanata</i>	16644	Inverness	Black River	2000-07-27	Gilhen, J. & A. Hebda
<i>Elliptio</i>	<i>complanata</i>	16607	Inverness	Dosite Lake	1999-08-10	MacLean, V., P. MacDonald & D. Anderson
<i>Elliptio</i>	<i>complanata</i>	16605	Inverness	Dosite Lake	1999-08-10	MacLean, V., P. MacDonald & D. Anderson
<i>Elliptio</i>	<i>complanata</i>	16605	Inverness	Dosite Lake	1999-08-10	MacLean, V., P. MacDonald & D. Anderson
<i>Elliptio</i>	<i>complanata</i>	16619	Inverness	Grand Lac	1999-08-13	MacLean, V. & J. MacDonald
<i>Elliptio</i>	<i>complanata</i>	16580	Inverness	Hays River	1999-08-06	MacLean, V. & J. MacDonald
<i>Elliptio</i>	<i>complanata</i>	16579	Inverness	Hays River	1999-08-06	MacLean, V. & J. MacDonald
<i>Elliptio</i>	<i>complanata</i>	16578	Inverness	Hays River	1999-08-06	MacLean, V. & J. MacDonald
<i>Elliptio</i>	<i>complanata</i>	16664	Inverness	Lake Ainslie	1965-10-09	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	975.251.001	Inverness	Lake Ainslie	1975-08-08	Wright, B.
<i>Elliptio</i>	<i>complanata</i>	16590	Inverness	Lake Ainslie	1999-08-06	MacLean, V. & D. Anderson
<i>Elliptio</i>	<i>complanata</i>	16603	Inverness	Lake Ainslie	1999-08-10	MacLean, V., P. MacDonald & D. Anderson
<i>Elliptio</i>	<i>complanata</i>	16568	Inverness	Lake O'Law Provincial Park	1999-07-28	MacLean, V. and J. MacDonald

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<i>Elliptio</i>	<i>complanata</i>	952.015.000	Inverness	MacIntyre Lake	1952-07-04	Athearn, H. D.
<i>Elliptio</i>	<i>complanata</i>	969.150.002	Inverness	MacIntyre Lake	1969-10-30	Wright, B.
<i>Elliptio</i>	<i>complanata</i>	16556	Inverness	Margaree River	1999-07-28	MacLean, V. and J. MacDonald
<i>Elliptio</i>	<i>complanata</i>	16555	Inverness	Margaree River	1999-07-28	MacLean, V. and J. MacDonald
<i>Elliptio</i>	<i>complanata</i>	16554	Inverness	Margaree River	1999-07-28	MacLean, V. and J. MacDonald
<i>Elliptio</i>	<i>complanata</i>	952.016.000	Inverness	Northeast Margaree River	1952-07-05	Athearn, H. D.
<i>Elliptio</i>	<i>complanata</i>	16569	Inverness	Second Lake O'Law	1999-07-29	MacLean, V. and J. MacDonald
<i>Elliptio</i>	<i>complanata</i>	16661	Inverness	Southwest Margaree River	1966-10-09	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	16588	Inverness	Trout Brook	1999-08-06	MacLean, V. & D. Anderson
<i>Elliptio</i>	<i>complanata</i>	16589	Inverness	Trout Brook	1999-08-06	MacLean, V. & D. Anderson
<i>Elliptio</i>	<i>complanata</i>	16585	Inverness	Trout Brook	1999-08-06	MacLean, V. & J. MacDonald
<i>Elliptio</i>	<i>complanata</i>	971.518.000	Kings	Aylesford Lake	1960-08-26	Bleakney, J. S. & A. Eaves
<i>Elliptio</i>	<i>complanata</i>	969.117.002	Kings	Gaspereau Lake	1969-10-17	Wright, B.
<i>Elliptio</i>	<i>complanata</i>	969.117.001	Kings	Gaspereau Lake	1969-10-17	Wright, B.
<i>Elliptio</i>	<i>complanata</i>	12860	Lunenburg	Big Mushamush Lake	1983-06-06	Wright, A.
<i>Elliptio</i>	<i>complanata</i>	986.146.001	Lunenburg	Big Mushamush Lake	1984-09-08	Bohlmann, U.
<i>Elliptio</i>	<i>complanata</i>	16537	Lunenburg	Big Mushamush Lake	1999-07-22	Not recorded
<i>Elliptio</i>	<i>complanata</i>	16487	Lunenburg	Clearwater Lake	2002-08-14	N.S.D.N.R.
<i>Elliptio</i>	<i>complanata</i>	978.051.003	Lunenburg	Fancy Lake	1978-07-27	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	971.521.000	Lunenburg	LaHave River	Not recorded	Not recorded
<i>Elliptio</i>	<i>complanata</i>	969.103.001	Lunenburg	Lake Lawson	1969-06-18	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	969.156.001	Lunenburg	Lake William	1969-10-12	Wright, B.
<i>Elliptio</i>	<i>complanata</i>	16126	Lunenburg	Moose Lake	2001-07-16	Stewart, H.
<i>Elliptio</i>	<i>complanata</i>	16821	Lunenburg	Shingle Lake	2005-08-10	Mills, J. & M. Munro
<i>Elliptio</i>	<i>complanata</i>	971.511.001	Pictou	Chance Harbour Lake	1955	Cox, G.H.
<i>Elliptio</i>	<i>complanata</i>	16060	Pictou	East Branch River John	2001-07-27	Archibald, D. & M-B. Archibald
<i>Elliptio</i>	<i>complanata</i>	971.503.000	Pictou	Eden Lake	c. 1950	Cox, G. H.
<i>Elliptio</i>	<i>complanata</i>	16653	Pictou	Eden Lake	2001-07-25	McChesney, S.& J. Duncan
<i>Elliptio</i>	<i>complanata</i>	971.506.003	Pictou	Forbes Lake	1955	Cox, G.H.
<i>Elliptio</i>	<i>complanata</i>	16054	Pictou	Forbes Lake	2001-10-10	Archibald, D.
<i>Elliptio</i>	<i>complanata</i>	971.508.004	Pictou	Grant Lake	1946	Cox, E. E & G.H. Cox
<i>Elliptio</i>	<i>complanata</i>	16055	Pictou	Hunters Lake	2001-09-11	Archibald, D. & A. Jackson
<i>Elliptio</i>	<i>complanata</i>	16493	Pictou	Little Caribou River	2002-07-24	Archibald, D. & A. Jackson
<i>Elliptio</i>	<i>complanata</i>	16771	Queens	Grafton Lake	1994	
<i>Elliptio</i>	<i>complanata</i>	16864	Queens	Grafton Lake	2005-09-11	Gilhen, J.
<i>Elliptio</i>	<i>complanata</i>	16505	Queens	Medway River	2003-10-03	Morash, S.

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<i>Elliptio</i>	<i>complanata</i>	953.019.000	Queens	Ponhook Lake	1953-07-05	Athearn, H. D.
<i>Elliptio</i>	<i>complanata</i>	16418	Queens	Ponhook Lake	1999-07-03	Hall, R.
<i>Elliptio</i>	<i>complanata</i>	16819	Queens	Spectacle Lake	2005-08-08	Mills, J. & M. Munro
<i>Elliptio</i>	<i>complanata</i>	972.591.015	Queens	Grafton Brook	1972	Kerekes, J. et al
<i>Elliptio</i>	<i>complanata</i>	972.591.014	Queens	Upper Silver Lake	1972-07-05	Kerekes, J.
<i>Elliptio</i>	<i>complanata</i>	969.148.001	Richmond	Pottie Lake	1969-10-30	Wright, B.
<i>Elliptio</i>	<i>complanata</i>	969.149.001	Richmond	Shaw Lake	1969-10-30	Wright, B.
<i>Elliptio</i>	<i>complanata</i>	971.506.001	Shelburne; Pictou	Horseshoe Lake	c. 1950	Cox, G. H.
<i>Elliptio</i>	<i>complanata</i>	976.324.002	Victoria	Warren Lake	1976-08-12	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	16622	Victoria	Warren Lake	2002-08-13	Lambert, S.
<i>Elliptio</i>	<i>complanata</i>	3802	Yarmouth	Bunkers Lake	1962-09-01	Allen, L. S.
<i>Elliptio</i>	<i>complanata</i>	953.014.001	Yarmouth	Cedar Lake	1953-07-06	Athearn, H. D.
<i>Elliptio</i>	<i>complanata</i>	971.506.002	Yarmouth	Clam Lake	1955	Cox, G. H.
<i>Elliptio</i>	<i>complanata</i>	16675	Yarmouth	Ellenwood Lake	1978-08-19	Nickerson
<i>Elliptio</i>	<i>complanata</i>	980.039.001	Yarmouth	Ellenwood Lake	1980-09-18	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	5321	Yarmouth	Lake Annis	1971-04-01	Sollows, S.
<i>Elliptio</i>	<i>complanata</i>	5322	Yarmouth	Lake Annis	1971-09-01	Sollows, J.
<i>Elliptio</i>	<i>complanata</i>	2475	Yarmouth	Parr Lake	Not recorded	Not recorded
<i>Elliptio</i>	<i>complanata</i>	16669	Yarmouth	Pleasant Lake	1969	Allen, L. S.
<i>Elliptio</i>	<i>complanata</i>	4672	Yarmouth	Pleasant Lake	1969-07-25	Nickerson, H.
<i>Elliptio</i>	<i>complanata</i>	977.222.010	Yarmouth	Salmon Lake	1977-07-07	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	3008	Yarmouth	Sandford	1960-08-01	Not recorded
<i>Elliptio</i>	<i>complanata</i>	16682	Yarmouth	Wilsons Lake	1983-07-20	Wright, B.
<i>Elliptio</i>	<i>complanata</i>	16683	Yarmouth	Wilsons Lake	1985-08-01	Wisheu, I.
<i>Lampsilis</i>	<i>cariosa</i>	16761	Cape Breton	Blacketts Lake	1987-06-29	Davis, D. S.
<i>Lampsilis</i>	<i>cariosa</i>	11223	Cape Breton	Blacketts Lake	1989-06-22	Wright, B.
<i>Lampsilis</i>	<i>cariosa</i>	11213	Cape Breton	Blacketts Lake	1989-06-29	Davis, D. S.
<i>Lampsilis</i>	<i>cariosa</i>	16413	Cape Breton	Blacketts Lake	1999-06-21	Davis, D. S.
<i>Lampsilis</i>	<i>cariosa</i>	16131	Cape Breton	Blacketts Lake	2001-10-03	Stewart, H.
<i>Lampsilis</i>	<i>cariosa</i>	978.045.005	Cape Breton	Gillis Lake	1978-07-13	Davis, D. S.
<i>Lampsilis</i>	<i>cariosa</i>	977.236.002	Cape Breton	Sydney River	1977-07-28	Wilson, A.
<i>Lampsilis</i>	<i>cariosa</i>	11217	Cape Breton	Sydney River	1989-06-19	Wright, B.
<i>Lampsilis</i>	<i>cariosa</i>	16536	Cape Breton	Sydney River	1999-06-21	Power, T. & S. Kavanugh
<i>Lampsilis</i>	<i>radiata</i>	16833	Cumberland	Amherst Marsh	1999-09-21	DNR staff
<i>Lampsilis</i>	<i>radiata</i>	16097	Halifax	Lake Fletcher	2001-07-20	Costelo, J.
<i>Lampsilis</i>	<i>radiata</i>	16103		Shubenacadie River	2001-07-05	Archibald, D.

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<i>Lampsilis</i>	<i>radiata</i>	16508	Annapolis	Annapolis River	2002-07-07	Spencer, S.
<i>Lampsilis</i>	<i>radiata</i>	980.016.004	Antigonish	Camerons Lakes	1980-07-09	Davis, D. S.
<i>Lampsilis</i>	<i>radiata</i>	980.007.003	Antigonish	Gaspereaux Lake	1980-06-13	Davis, D. S.
<i>Lampsilis</i>	<i>radiata</i>	15892	Antigonish	Gillis Lake	1999-08-03	Young, M. & S. MacPhee
<i>Lampsilis</i>	<i>radiata</i>	15869	Antigonish	Jacksons Lake	1999-08-09	Not recorded
<i>Lampsilis</i>	<i>radiata</i>	15874	Antigonish	Lochaber Lake	1999-08-03	Young, M. & S. MacPhee
<i>Lampsilis</i>	<i>radiata</i>	980.029.001	Antigonish	South River Lake	1980-08-13	Davis, D. S.
<i>Lampsilis</i>	<i>radiata</i>	15857	Antigonish	South River Lake	1999-08-11	Young, M. & S. MacPhee
<i>Lampsilis</i>	<i>radiata</i>	980.018.003	Antigonish	St. Josephs Lake	1980-07-09	Davis, D. S.
<i>Lampsilis</i>	<i>radiata</i>	16165	Colchester	Kennedy Lake	2001-09-18	Hall, R.
<i>Lampsilis</i>	<i>radiata</i>	16428	Colchester	MacElmons Pond	1999-07-13	Hall, R.
<i>Lampsilis</i>	<i>radiata</i>	987.002.001	Colchester	St. Andrews River	1987-05-12	Davis, D. S.
<i>Lampsilis</i>	<i>radiata</i>	16438	Colchester	Stewiacke River	2000-08-16	Hall, R.
<i>Lampsilis</i>	<i>radiata</i>	16395	Cumberland	Angevine Lake	1999-08-04	Hall, R.
<i>Lampsilis</i>	<i>radiata</i>	16162	Cumberland	Angevine Lake	2001-08-01	Hall, R.
<i>Lampsilis</i>	<i>radiata</i>	16411	Cumberland	Big Lake	1999-08-25	Hall, R.
<i>Lampsilis</i>	<i>radiata</i>	16432	Cumberland	Black Lake	2000-09-27	Hall, R.
<i>Lampsilis</i>	<i>radiata</i>	16157	Cumberland	Chase Lake	2001-09-19	Not recorded
<i>Lampsilis</i>	<i>radiata</i>	975.224.001	Cumberland	Lake Killarney	1975-07-18	Davis, D. S.
<i>Lampsilis</i>	<i>radiata</i>	16166	Cumberland	Lake Killarney	2001-08-10	Hall, R.
<i>Lampsilis</i>	<i>radiata</i>	16780	Cumberland	Long Lake	2004	Harris, D.
<i>Lampsilis</i>	<i>radiata</i>	16377	Cumberland	Mattatall Lake	1999-08-26	Hall, R.
<i>Lampsilis</i>	<i>radiata</i>	16105	Cumberland	Mattatall Lake	2001-08-01	Hall, R.
<i>Lampsilis</i>	<i>radiata</i>	11072	Cumberland	Newville Lake	1989-07-24	Davis, D. S.
<i>Lampsilis</i>	<i>radiata</i>	16454	Cumberland	Newville Lake	1999-06-24	Hall, R.
<i>Lampsilis</i>	<i>radiata</i>	16452	Cumberland	Newville Lake	1999-08-06	Hall, R.
<i>Lampsilis</i>	<i>radiata</i>	16148	Cumberland	Newville Lake	2001-07-26	Not recorded
<i>Lampsilis</i>	<i>radiata</i>	16123	Cumberland	Newville Lake	2001-07-26	Hall, R.
<i>Lampsilis</i>	<i>radiata</i>	16384	Cumberland	Patten Lake	2002-09-26	Hall, R.
<i>Lampsilis</i>	<i>radiata</i>	953.020.000	Cumberland	River Hebert	1953-07-11	Athearn, H. D.
<i>Lampsilis</i>	<i>radiata</i>	954.069.000	Cumberland	River Hebert	1954-07-04	Athearn, H. D.
<i>Lampsilis</i>	<i>radiata</i>	16180	Cumberland	Wigmore Lake	2001-08-10	Hall, R.
<i>Lampsilis</i>	<i>radiata</i>	15827	Guysborough	Archibalds Mill Lake	1999-08-25	Young, M. & S. MacPhee
<i>Lampsilis</i>	<i>radiata</i>	15817	Guysborough	Eight Island Lake	1999-08-17	Young, M. & S. MacPhee
<i>Lampsilis</i>	<i>radiata</i>	15864	Guysborough	Gaspereaux Lake	1999-08-03	Young, M. & S. MacPhee
<i>Lampsilis</i>	<i>radiata</i>	15830	Guysborough	Glencross Lake	1999-08-25	Young, M. & S. MacPhee

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<i>Lampsilis</i>	<i>radiata</i>	15824	Guysborough	Goshen Lake	1999-08-25	Young, M. & S. MacPhee
<i>Lampsilis</i>	<i>radiata</i>	15838	Guysborough	St Marys River	1999-08-27	Not recorded
<i>Lampsilis</i>	<i>radiata</i>	15911	Guysborough	Stewart Lake	2000-06-14	Not recorded
<i>Lampsilis</i>	<i>radiata</i>	15896	Guysborough	Wallace Lake	1999-08-13	Young, M. & S. MacPhee
<i>Lampsilis</i>	<i>radiata</i>	15805	Guysborough	Wallace Lake	1999-08-13	Young, M. & S. MacPhee
<i>Lampsilis</i>	<i>radiata</i>	15907	Halifax	Crooked Lake	2000-06-14	Not recorded
<i>Lampsilis</i>	<i>radiata</i>	16439	Halifax	Dry Lake	2000-09-22	Hall, R.
<i>Lampsilis</i>	<i>radiata</i>	16668	Halifax	Grand Lake	1999-08-10	Sollow, J.
<i>Lampsilis</i>	<i>radiata</i>	954.070.000	Halifax	Lake Egmont	1954-07-13	Athearn, H. D.
<i>Lampsilis</i>	<i>radiata</i>	16482	Halifax	Lake Egmont	2002-10-01	Archibald, D.
<i>Lampsilis</i>	<i>radiata</i>	16466	Halifax	Lake Egmont	2002-10-25	Archibald, D.
<i>Lampsilis</i>	<i>radiata</i>	954.068.000	Halifax	Musquodoboit Harbour	1948-07-08	Athearn, H. D.
<i>Lampsilis</i>	<i>radiata</i>	975.240.001	Halifax	Musquodoboit River	1975-07-30	Davis, D. S.
<i>Lampsilis</i>	<i>radiata</i>	16064	Halifax	Musquodoboit River	2001-08-24	Archibald, D.
<i>Lampsilis</i>	<i>radiata</i>	16070	Halifax	Musquodoboit River	2001-08-24	Archibald, D.
<i>Lampsilis</i>	<i>radiata</i>	16742	Hants	Nine Mile River	1999-08-10	Gilhen, J.
<i>Lampsilis</i>	<i>radiata</i>	16497	Hants	Nine Mile River	2002-07-17	N.S.D.N.R.
<i>Lampsilis</i>	<i>radiata</i>	975.210.003	Hants	Shubenacadie	1975-06-23	Davis, D. S. & P. McClung
<i>Lampsilis</i>	<i>radiata</i>	16824	Hants	Shubenacadie River	2005-08-17	Gilhen, J.
<i>Lampsilis</i>	<i>radiata</i>	971.511.002	Pictou	Chance Harbour	c. 1950	Cox, G.H.
<i>Lampsilis</i>	<i>radiata</i>	971.514.000	Pictou	Forbes Lake	c. 1950	Cox, G.H.
<i>Lampsilis</i>	<i>radiata</i>	16053	Pictou	Forbes Lake	2001-10-10	Archibald, D.
<i>Leptodea</i>	<i>ochracea</i>	11214	Cape Breton	Blacketts Lake	1989-06-29	Davis, D. S.
<i>Leptodea</i>	<i>ochracea</i>	11218	Cape Breton	Sydney River	1989-06-19	Wright, B.
<i>Leptodea</i>	<i>ochracea</i>	11211	Cape Breton	Sydney River	1989-06-29	Davis, D. S.
<i>Leptodea</i>	<i>ochracea</i>	16762	Cape Breton	Gillis Lake	1978-07-13	Davis, D. S.
<i>Leptodea</i>	<i>ochracea</i>	16535	Cape Breton	Sydney River	1999-06-21	Power, T. & S. Kavanagh
<i>Leptodea</i>	<i>ochracea</i>	16379	Cumberland	Long Lake	2002-08-27	Hall, R.
<i>Leptodea</i>	<i>ochracea</i>	16781	Cumberland	Long Lake	2004	Harris, D.
<i>Leptodea</i>	<i>ochracea</i>	11071	Cumberland	Newville Lake	1989-07-24	Davis, D. S.
<i>Leptodea</i>	<i>ochracea</i>	15797	Cumberland	Newville Lake	1999-08-06	Hall R.
<i>Leptodea</i>	<i>ochracea</i>	16125	Cumberland	River Hebert	2001-07-26	Hall, R.
<i>Leptodea</i>	<i>ochracea</i>	16430	Cumberland	Round Lake	2000-06-28	Hall, R.
<i>Leptodea</i>	<i>ochracea</i>	16406	Cumberland	Long Lake	1999-09-21	Hall, R.
<i>Leptodea</i>	<i>ochracea</i>	979.133.001	Digby	Placides Lake	1979-04-25	Wright, B. & E. Claridge
<i>Margaritifera</i>	<i>margaritifera</i>	16051	Pictou	East River of Pictou	2001-09-11	Archibald, D. & A. Jackson

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<i>Margaritifera</i>	<i>margaritifera</i>	16058	Pictou	West River of Pictou	2001-07-24	Archibald, D.
<i>Margaritifera</i>	<i>margaritifera</i>	921.006.000	Annapolis	Nictaux River	1921	Reid, A.
<i>Margaritifera</i>	<i>margaritifera</i>	975.256.001	Annapolis	Paradise	1975-08-20	Davis, D. S. & P. McClung
<i>Margaritifera</i>	<i>margaritifera</i>	15888	Antigonish	Beaver Meadow	1999-07-11	Pulsifer, M.
<i>Margaritifera</i>	<i>margaritifera</i>	15890	Antigonish	Beaver River	1999-07-11	Pulsifer, M.
<i>Margaritifera</i>	<i>margaritifera</i>	15887	Antigonish	Brierly Brook	1999-06-30	Pulsifer, M.
<i>Margaritifera</i>	<i>margaritifera</i>	15889	Antigonish	James River	1999-07-16	Pulsifer, M.
<i>Margaritifera</i>	<i>margaritifera</i>	15841	Antigonish	Monastery Brook	1999-08-09	Pulsifer, M.
<i>Margaritifera</i>	<i>margaritifera</i>	15881	Antigonish	Ohio River	1999-07-16	Young, M. & S. MacPhee
<i>Margaritifera</i>	<i>margaritifera</i>	15885	Antigonish	Pomquet River	1999-07-23	Young, M. & S. MacPhee
<i>Margaritifera</i>	<i>margaritifera</i>	15886	Antigonish	Rights River	1999-06-30	Young, M. & S. MacPhee
<i>Margaritifera</i>	<i>margaritifera</i>	15894	Antigonish	South Rights River	1999-07-19	Young, M. & S. MacPhee
<i>Margaritifera</i>	<i>margaritifera</i>	952.007.000	Antigonish	South River	1952-07-04	Athearn, H. D.
<i>Margaritifera</i>	<i>margaritifera</i>	15868	Antigonish	St. Josephs Lake	1999-08-05	Young, M. & S. MacPhee
<i>Margaritifera</i>	<i>margaritifera</i>	15904	Antigonish	West Pomquet River	2000-06-15	Not recorded
<i>Margaritifera</i>	<i>margaritifera</i>	954.044.003	Antigonish	West River	1954-07-04	Athearn, H. D.
<i>Margaritifera</i>	<i>margaritifera</i>	15882	Antigonish	West River	1999-07-13	Pulsifer, M.
<i>Margaritifera</i>	<i>margaritifera</i>	16532	Cape Breton	Catalone Lake	2001-06-27	Power, T. & D. Gouthro
<i>Margaritifera</i>	<i>margaritifera</i>	16534	Cape Breton	Figure of Eight Lake	2001-07-31	Gouthro, D. & W. MacLean
<i>Margaritifera</i>	<i>margaritifera</i>	16533	Cape Breton	Grand Lake	2001-07-12	Gouthro, D. & W. MacLean
<i>Margaritifera</i>	<i>margaritifera</i>	16529	Cape Breton	Lorraine Brook	2001-07-18	Gouthro, D. & W. MacLean
<i>Margaritifera</i>	<i>margaritifera</i>	16143	Colchester	Baird Brook	2001-08-27	Stewart, H.
<i>Margaritifera</i>	<i>margaritifera</i>	16139	Colchester	Baird Brook	2001-10-14	Stewart, H.
<i>Margaritifera</i>	<i>margaritifera</i>	951.009.000	Colchester	Beaver Brook	1951-07-01	Athearn, H. D.
<i>Margaritifera</i>	<i>margaritifera</i>	16133	Colchester	Beaver Brook	2001-08-24	Stewart, H.
<i>Margaritifera</i>	<i>margaritifera</i>	16128	Colchester	Belmont Brook	2001-07-29	Stewart, H.
<i>Margaritifera</i>	<i>margaritifera</i>	11668	Colchester	Chiganois River	1990-08-30	Parsons, J.
<i>Margaritifera</i>	<i>margaritifera</i>	16137	Colchester	Chiganois River	2001-07-29	Stewart, H.
<i>Margaritifera</i>	<i>margaritifera</i>	16135	Colchester	Chiganois River	2001-08-06	Stewart, H.
<i>Margaritifera</i>	<i>margaritifera</i>	16132	Colchester	Chiganois River	2001-08-07	Stewart, H.
<i>Margaritifera</i>	<i>margaritifera</i>	16140	Colchester	Chiganois River	2001-08-12	Stewart, H.
<i>Margaritifera</i>	<i>margaritifera</i>	16170	Colchester	Salmon River	2001-08-21	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	16510	Colchester	Salmon River	2003-04-26	Archibald, D.
<i>Margaritifera</i>	<i>margaritifera</i>	16199	Colchester	South Branch Stewiacke River	2001-07-31	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	986.133.001	Colchester	St. Andrews River	1986-05-13	Davis, D. S.
<i>Margaritifera</i>	<i>margaritifera</i>	16116	Colchester	St. Andrews River	2001-07-31	Hall, R.

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<i>Margaritifera</i>	<i>margaritifera</i>	16112	Colchester	St. Andrews River	2001-07-31	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	951.010.000	Colchester	Stewiacke River	1951-07-01	Athearn, H. D.
<i>Margaritifera</i>	<i>margaritifera</i>	16416	Colchester	Stewiacke River	1999-08-31	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	16195	Colchester	Stewiacke River	2001-07-31	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	16189	Colchester	Stewiacke River	2001-09-21	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	954.045.000	Colchester	Tatamagouche River	1954-07-15	Athearn, H. D.
<i>Margaritifera</i>	<i>margaritifera</i>	16394	Colchester	Waughs River	1999-06-30	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	16441	Cumberland	Black Brook	2000-06-20	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	16177	Cumberland	Dewar River	2001-06-19	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	16182	Cumberland	Little River	2001-07-13	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	951.007.000	Cumberland	Maccan River	1951-07-01	Athearn, H. D.
<i>Margaritifera</i>	<i>margaritifera</i>	16187	Cumberland	Maccan River	2001-08-03	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	16118	Cumberland	Maccan River	2001-08-03	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	16171	Cumberland	Maccan River	2001-08-03	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	16191	Cumberland	Pugwash River	2001-08-10	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	954.044.002	Cumberland	River Hebert	1954-07-04	Athearn, H. D.
<i>Margaritifera</i>	<i>margaritifera</i>	16159	Cumberland	River Hebert	2001-07-24	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	971.522.000	Cumberland	River Philip	1971-09-20	Gilhen, J. & B. Wright
<i>Margaritifera</i>	<i>margaritifera</i>	975.232.001	Cumberland	River Philip	1975-07-23	Davis, D. S.
<i>Margaritifera</i>	<i>margaritifera</i>	16626	Cumberland	River Philip	1984-07-18	Gilhen, J. & F. Scott
<i>Margaritifera</i>	<i>margaritifera</i>	16186	Cumberland	River Philip	2001-07-13	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	16176	Cumberland	River Philip	2001-07-13	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	16174	Cumberland	River Philip	2001-07-13	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	16138	Cumberland	River Philip	2001-08-07	Stewart, H.
<i>Margaritifera</i>	<i>margaritifera</i>	16419	Cumberland	Shinimicas River	1999-08-11	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	16393	Cumberland	Shinimicas River	1999-08-11	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	16435	Cumberland	Tillits Creek	2000-06-06	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	975.230.001	Cumberland	Wallace River	1975-07-23	Davis, D. S. & P. McClung
<i>Margaritifera</i>	<i>margaritifera</i>	16446	Cumberland	Wallace River	1999-08-11	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	15742	Cumberland	Wallace River	2000-06-01	Hebda, A. and J. Gilhen
<i>Margaritifera</i>	<i>margaritifera</i>	16117	Cumberland	Wallace River	2001-07-13	Not recorded
<i>Margaritifera</i>	<i>margaritifera</i>	16172	Cumberland	Wallace River	2001-08-01	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	16825	Cumberland	Wallace River	2005-08-23	Gilhen, J.
<i>Margaritifera</i>	<i>margaritifera</i>	15846	Guysborough	Ann Wallace Lake	1999-08-10	Young, M. & S. MacPhee
<i>Margaritifera</i>	<i>margaritifera</i>	15905	Guysborough	Clam Harbour River	2000-06-16	Not recorded
<i>Margaritifera</i>	<i>margaritifera</i>	15925	Guysborough	Country Harbour	2000-07-20	Not recorded

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<i>Margaritifera</i>	<i>margaritifera</i>	15849	Guysborough	Country Harbour Lake	1999-08-12	Young, M. & S. MacPhee
<i>Margaritifera</i>	<i>margaritifera</i>	15820	Guysborough	Country Harbour River	1999-08-18	Young, M. & S. MacPhee
<i>Margaritifera</i>	<i>margaritifera</i>	15835	Guysborough	East River St. Marys	1999-08-25	Young, M. & S. MacPhee
<i>Margaritifera</i>	<i>margaritifera</i>	15800	Guysborough	Glenelg Lake	1999-08-13	Young, M. & S. MacPhee
<i>Margaritifera</i>	<i>margaritifera</i>	15927	Guysborough	Guysborough River	2000-07-14	Not recorded
<i>Margaritifera</i>	<i>margaritifera</i>	15811	Guysborough	McKeen Brook	1999-08-13	Young, M. & S. MacPhee
<i>Margaritifera</i>	<i>margaritifera</i>	15848	Guysborough	Salmon River	1999-08-12	Young, M. & S. MacPhee
<i>Margaritifera</i>	<i>margaritifera</i>	15926	Guysborough	Salmon River	2000-07-14	Not recorded
<i>Margaritifera</i>	<i>margaritifera</i>	15931	Guysborough	Salmon River	2000-07-14	Not recorded
<i>Margaritifera</i>	<i>margaritifera</i>	946.016.000	Guysborough	St. Marys River	1946-07-01	Athearn, H. D.
<i>Margaritifera</i>	<i>margaritifera</i>	15873	Guysborough	Stewart Lake	1999-07-09	Pulsifer, M.
<i>Margaritifera</i>	<i>margaritifera</i>	923.012.000	Halifax	Little Salmon River	1923-09-09	Henderson, M. E. C.
<i>Margaritifera</i>	<i>margaritifera</i>	923.005.000	Halifax	Little Salmon River	1923-09-09	Henderson, M. E. C.
<i>Margaritifera</i>	<i>margaritifera</i>	946.017.000	Halifax	Musquodoboit River	1946-07-01	Athearn, H. D.
<i>Margaritifera</i>	<i>margaritifera</i>	954.046.000	Halifax	Musquodoboit River	1954-07-08	Athearn, H. D.
<i>Margaritifera</i>	<i>margaritifera</i>	971.102.000	Halifax	Musquodoboit River	1971-03-10	Davis, D. S.
<i>Margaritifera</i>	<i>margaritifera</i>	15745	Halifax	Musquodoboit River	1998-08-04	Purcell, J. & G. Purcell
<i>Margaritifera</i>	<i>margaritifera</i>	16067	Halifax	Musquodoboit River	2001-08-24	Archibald, D.
<i>Margaritifera</i>	<i>margaritifera</i>	16079	Halifax	Musquodoboit River	2001-09-14	Archibald, D.
<i>Margaritifera</i>	<i>margaritifera</i>	16073	Halifax	Musquodoboit River	2001-09-14	Archibald, D.
<i>Margaritifera</i>	<i>margaritifera</i>	16071	Halifax	Musquodoboit River	2001-09-14	Archibald, D.
<i>Margaritifera</i>	<i>margaritifera</i>	16642	Halifax	Sackville River	1966-09-20	Davis, D.S.
<i>Margaritifera</i>	<i>margaritifera</i>	970.030.000	Halifax	Sackville River	1970-06-04	Davis, D. S. & B. Wright
<i>Margaritifera</i>	<i>margaritifera</i>	16194	Hants	Nine Mile River	2001-07-20	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	16188	Hants	Nine Mile River	2001-07-20	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	16169	Hants	Nine Mile River	2001-07-20	Hall, R.
<i>Margaritifera</i>	<i>margaritifera</i>	16609	Inverness	Basiles Brook	1999-08-10	MacLean, V., P. MacDonald & D. Anderson
<i>Margaritifera</i>	<i>margaritifera</i>	16611	Inverness	Basiles Brook	1999-08-10	MacLean, V., P. MacDonald & D. Anderson
<i>Margaritifera</i>	<i>margaritifera</i>	16608	Inverness	Dosite Lake	1999-08-10	MacLean, V., P. MacDonald & D. Anderson
<i>Margaritifera</i>	<i>margaritifera</i>	16566	Inverness	Lake O'Law Provincial Park	1999-07-28	MacLean V. & J. MacDonald
<i>Margaritifera</i>	<i>margaritifera</i>	16544	Inverness	MacColls Brook	1999-07-09	MacLean V. & J. MacDonald
<i>Margaritifera</i>	<i>margaritifera</i>	16542	Inverness	Maple Brook	1999-07-09	MacLean V. & J. MacDonald
<i>Margaritifera</i>	<i>margaritifera</i>	16543	Inverness	Maple Brook	1999-07-28	MacLean V. & J. MacDonald
<i>Margaritifera</i>	<i>margaritifera</i>	16564	Inverness	Margaree River	1999-07-28	MacLean V. & J. MacDonald
<i>Margaritifera</i>	<i>margaritifera</i>	16563	Inverness	Margaree River	1999-07-28	MacLean V. & J. MacDonald
<i>Margaritifera</i>	<i>margaritifera</i>	16557	Inverness	Margaree River	1999-07-28	MacLean V. & J. MacDonald

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<i>Margaritifera</i>	<i>margaritifera</i>	16562	Inverness	Margaree River	1999-07-28	Timmons, L.
<i>Margaritifera</i>	<i>margaritifera</i>	16561	Inverness	Margaree River	1999-07-28	Timmons, L.
<i>Margaritifera</i>	<i>margaritifera</i>	16575	Inverness	Mull River	1999-07-29	MacLean V. & J. MacDonald
<i>Margaritifera</i>	<i>margaritifera</i>	16574	Inverness	Mull River	1999-07-29	MacLean V. & J. MacDonald
<i>Margaritifera</i>	<i>margaritifera</i>	952.008.000	Inverness	Northeast Margaree River	1952-07-05	Athearn, H. D.
<i>Margaritifera</i>	<i>margaritifera</i>	16549	Inverness	River Denys	1999-07-16	MacLean V. & J. MacDonald
<i>Margaritifera</i>	<i>margaritifera</i>	16548	Inverness	River Denys	1999-07-16	MacLean V. & J. MacDonald
<i>Margaritifera</i>	<i>margaritifera</i>	16547	Inverness	River Denys	1999-07-16	MacLean V. & J. MacDonald
<i>Margaritifera</i>	<i>margaritifera</i>	952.005.000	Inverness	River Inhabitants	1952-07-05	Athearn, H. D.
<i>Margaritifera</i>	<i>margaritifera</i>	16546	Inverness	River Inhabitants	1999-07-09	MacLean V. & J. MacDonald
<i>Margaritifera</i>	<i>margaritifera</i>	16545	Inverness	River Inhabitants	1999-07-19	MacLean V. & J. MacDonald
<i>Margaritifera</i>	<i>margaritifera</i>	16553	Inverness	River Inhabitants	1999-07-21	MacLean V. & J. MacDonald
<i>Margaritifera</i>	<i>margaritifera</i>	16552	Inverness	River Inhabitants	1999-07-21	MacLean V. & J. MacDonald
<i>Margaritifera</i>	<i>margaritifera</i>	16551	Inverness	River Inhabitants	1999-07-21	MacLean V. & J. MacDonald
<i>Margaritifera</i>	<i>margaritifera</i>	16550	Inverness	River Inhabitants	1999-07-21	MacLean V. & J. MacDonald
<i>Margaritifera</i>	<i>margaritifera</i>	16627	Inverness	River Inhabitants	2002-06-21	Gilhen, J.
<i>Margaritifera</i>	<i>margaritifera</i>	16834	Inverness	River Inhabitants	2005-09-15	Gilhen, J.
<i>Margaritifera</i>	<i>margaritifera</i>	16560	Inverness	Southwest Margaree River	1999-07-28	MacLean V. & J. MacDonald
<i>Margaritifera</i>	<i>margaritifera</i>	16559	Inverness	Southwest Margaree River	1999-07-28	MacLean V. & J. MacDonald
<i>Margaritifera</i>	<i>margaritifera</i>	16558	Inverness	Southwest Margaree River	1999-07-28	MacLean V. & J. MacDonald
<i>Margaritifera</i>	<i>margaritifera</i>	971.500.000	Not recorded	Plaster Rock	1971	Cox, G.H.
<i>Margaritifera</i>	<i>margaritifera</i>	16052	Pictou	East River of Pictou	2001-09-11	Archibald, D. & A. Jackson
<i>Margaritifera</i>	<i>margaritifera</i>	16050	Pictou	East River of Pictou	2001-09-28	Archibald, D. & A. Jackson
<i>Margaritifera</i>	<i>margaritifera</i>	971.502.000	Pictou	East River St. Marys	Not recorded	Not recorded
<i>Margaritifera</i>	<i>margaritifera</i>	971.501.000	Pictou	Grant Lake	c. 1950	Cox, G.H.
<i>Margaritifera</i>	<i>margaritifera</i>	16492	Pictou	Little Caribou River	2002-07-24	Archibald, D. & A. Jackson
<i>Margaritifera</i>	<i>margaritifera</i>	16655	Pictou	Moose River	2001-07-25	McChesney, S. & J. Duncan
<i>Margaritifera</i>	<i>margaritifera</i>	16062	Pictou	River John	2001-07-27	Archibald, D. & M-B. Archibald
<i>Margaritifera</i>	<i>margaritifera</i>	16654	Pictou	St. Marys River	2001-07-25	McChesney, S. & J. Duncan
<i>Margaritifera</i>	<i>margaritifera</i>	16061	Pictou	West Branch River John	2001-07-27	Archibald, D. & M-B. Archibald
<i>Margaritifera</i>	<i>margaritifera</i>	16059	Pictou	West River of Pictou	2001-07-24	Archibald, D.
<i>Margaritifera</i>	<i>margaritifera</i>	16641	Richmond	Grand River	1985-07-20	Davis, D.S.
<i>Margaritifera</i>	<i>margaritifera</i>	952.009.000	Richmond	Grand River	1952-07-04	Athearn, H. D.
<i>Margaritifera</i>	<i>margaritifera</i>	952.006.000	Richmond	River Framboise	1952-07-04	Athearn, H. D.
<i>Margaritifera</i>	<i>margaritifera</i>	16663	Victoria	Warren Brook	2003-08-13	Lambert, S.
<i>Margaritifera</i>	<i>margaritifera</i>	976.322.001	Victoria	Warren Lake	1976-08-12	Davis, D. S. & A. Wilson

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<i>Pyganodon</i>	<i>cataracta</i>	16421	Cumberland	Amherst Marsh	1999-09-16	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	16087	Halifax	Morris Lake	2001-07-17	Archibald, D. & J. Costelo
<i>Pyganodon</i>	<i>cataracta</i>	15884	Antigonish	Cameron Lake	1999-08-03	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	980.016.005	Antigonish	Camerons Lakes	1980-07-09	Davis, D. S.
<i>Pyganodon</i>	<i>cataracta</i>	15880	Antigonish	Copper Lake	1999-08-03	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	980.007.001	Antigonish	Gaspereaux Lake	1980-06-13	Davis, D. S.
<i>Pyganodon</i>	<i>cataracta</i>	15893	Antigonish	Gillis Lake	1999-08-03	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	15870	Antigonish	Jacksons Lake	1999-08-09	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	15851	Antigonish	Jacksons Lake	1999-08-09	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	15899	Antigonish	Lochaber Lake	1999-08-03	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	980.029.003	Antigonish	South River Lake	1980-08-13	Davis, D. S.
<i>Pyganodon</i>	<i>cataracta</i>	15843	Antigonish	South River Lake	1999-08-11	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	980.018.001	Antigonish	St. Josephs Lake	1980-07-09	Davis, D. S.
<i>Pyganodon</i>	<i>cataracta</i>	15867	Antigonish	St. Josephs Lake	1999-08-05	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	11215	Cape Breton	Blacketts Lake	1989-06-29	Davis, D. S.
<i>Pyganodon</i>	<i>cataracta</i>	16523	Cape Breton	Gabarus Lake	2001-07-31	Gouthro, D. & W. MacLean
<i>Pyganodon</i>	<i>cataracta</i>	975.045.002	Cape Breton	Gillis Lake	1978-07-13	Davis, D. S.
<i>Pyganodon</i>	<i>cataracta</i>	16528	Cape Breton	Kellys Lake	2001-07-23	Gouthro, D. & W. MacLean
<i>Pyganodon</i>	<i>cataracta</i>	11227	Cape Breton	Lake Uist	1989-06-20	Wright, B.
<i>Pyganodon</i>	<i>cataracta</i>	16524	Cape Breton	MacCuishs Lake	2001-07-24	Gouthro, D. & W. MacLean
<i>Pyganodon</i>	<i>cataracta</i>	16531	Cape Breton	MacIntyre Lake	2001-06-22	Power, T. & D. Gouthro
<i>Pyganodon</i>	<i>cataracta</i>	16759	Cape Breton	Meadows Brook	1990-07-05	Wright, B. & J. Gilhen
<i>Pyganodon</i>	<i>cataracta</i>	16530	Cape Breton	String Lakes	2001-07-30	Gouthro, D. & W. MacLean
<i>Pyganodon</i>	<i>cataracta</i>	975.236.004	Cape Breton	Sydney River	1977-07-28	Wilson, A.
<i>Pyganodon</i>	<i>cataracta</i>	15235	Cape Breton, Richr	Irish Cove	1998-11-03	Davis, D. S.
<i>Pyganodon</i>	<i>cataracta</i>	953.009.000	Colchester	Baird Brook	1953-07-11	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	16134	Colchester	Chiganois River	2001-08-22	Stewart, H.
<i>Pyganodon</i>	<i>cataracta</i>	971.513.000	Colchester	Debert Camp	1961-08-01	Ferguson, D. C.
<i>Pyganodon</i>	<i>cataracta</i>	16173	Colchester	Deyarmont Lake	2001-09-21	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	16185	Colchester	Earltown Lake	2001-09-18	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	16414	Colchester	Folly Lake	1999-08-11	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	16447	Colchester	Jacks Place Lake	2000-06-01	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	16449	Colchester	Kiwanis Pond	1999-10-08	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	974.263.001	Colchester	MacElmons Pond	1974-09-24	McClung, P.
<i>Pyganodon</i>	<i>cataracta</i>	16427	Colchester	MacElmons Pond	1999-07-13	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	16448	Colchester	MacElmons Pond	2000-06-29	Hall, R.

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<i>Pyganodon</i>	<i>cataracta</i>	16201	Colchester	South Branch Stewiacke River	2001-07-31	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	16114	Colchester	St. Andrews River	2001-07-31	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	16153	Cumberland	Amherst Point Migratory Bird Sanctuary	2001-06-12	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	16397	Cumberland	Angevine Lake	1999-08-04	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	16163	Cumberland	Angevine Lake	2001-08-01	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	950.086.013	Cumberland	Blair Lake	1950-08-23	Livingstone, D. A. & L. Duncanson
<i>Pyganodon</i>	<i>cataracta</i>	16154	Cumberland	Chase Lake	2001-09-19	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	16127	Cumberland	Gough Brook	2001-06-22	Stewart, H.
<i>Pyganodon</i>	<i>cataracta</i>	951.018.000	Cumberland	Halfway River	1951-07-01	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	16773	Cumberland	Harrison Lake	2001-06-14	D' Eon, N.
<i>Pyganodon</i>	<i>cataracta</i>	16175	Cumberland	Harrison Lake	2001-08-03	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	978.082.002	Cumberland	Ibbitson Brook	1978-07-18	Gilhen, J. & E. Claridge
<i>Pyganodon</i>	<i>cataracta</i>	16444	Cumberland	Isaac Lake	2000-07-14	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	975.221.007	Cumberland	John Smith Brook	1975-07-17	Davis, D. S.
<i>Pyganodon</i>	<i>cataracta</i>	975.221.001	Cumberland	John Smith Brook	1975-07-17	Davis, D. S.
<i>Pyganodon</i>	<i>cataracta</i>	975.224.003	Cumberland	Lake Killarney	1975-07-18	Davis, D. S.
<i>Pyganodon</i>	<i>cataracta</i>	978.064.001	Cumberland	Laytons Lake	1978-09-08	Davis, D. S.
<i>Pyganodon</i>	<i>cataracta</i>	978.063.001	Cumberland	Laytons Lake	1978-09-08	Davis, D. S.
<i>Pyganodon</i>	<i>cataracta</i>	16111	Cumberland	Leake Lake	2001-07-26	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	16407	Cumberland	Long Lake	1999-09-21	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	16192	Cumberland	McPherson Lake	2001-08-10	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	16445	Cumberland	Missaguash Marsh	1999-09-14	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	16120	Cumberland	Newville Lake	2001-07-26	Not recorded
<i>Pyganodon</i>	<i>cataracta</i>	16147	Cumberland	Newville Lake	2001-07-26	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	16183	Cumberland	Parrsboro River	2001-07-25	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	16387	Cumberland	Patten Lake	2002-09-26	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	953.016.000	Cumberland	River Hebert	1953-07-11	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	974.225.001	Cumberland	Tidnish	1974	Sharpe, S.
<i>Pyganodon</i>	<i>cataracta</i>	16437	Cumberland	Tillits Creek	2000-06-06	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	16109	Cumberland	Vickery Lake	2001-06-20	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	16383	Cumberland	Vickery Lake	2002-07-22	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	983.145.001	Cumberland	Wallace Highlands	1983-09-22	Duncanson, L.
<i>Pyganodon</i>	<i>cataracta</i>	973.553.002	Cumberland	Wallace River	1973-04-26	Weller, W. & J. Callaghan
<i>Pyganodon</i>	<i>cataracta</i>	973.553.001	Cumberland	Wallace River	1973-04-26	Weller, W. & J. Callaghan
<i>Pyganodon</i>	<i>cataracta</i>	16151	Cumberland	Welton Lake	2001-07-25	Hall, R.

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<i>Pyganodon</i>	<i>cataracta</i>	16636	Cumberland	Welton Lake	2003-08-28	Harris, D.
<i>Pyganodon</i>	<i>cataracta</i>	16181	Cumberland	Wigmore Lake	2001-08-10	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	953.012.000	Digby	Bear River	1953-07-06	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	11804	Digby	Belliveau Lake	1992-08-27	Proulx, G.
<i>Pyganodon</i>	<i>cataracta</i>	953.013.000	Digby	Cupits Lake	1953-07-06	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.25	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.24	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.23	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.22	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.21	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.20	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.19	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.18	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.17	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.16	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.15	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.14	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.13	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.12	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.11	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.10	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.09	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.08	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.07	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.06	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.05	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.04	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.03	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.02	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001.01	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	984.012.001	Digby	Lake Midway	1984-08-01	Wright, B. & L. Morris
<i>Pyganodon</i>	<i>cataracta</i>	16625	Digby	Lake Midway	1999-07-28	Hebda, A., J. Gilhen & D. Bridgewater
<i>Pyganodon</i>	<i>cataracta</i>	979.133.002	Digby	Placides Lake	1979-04-25	Wright, B.; Claridge, Edward
<i>Pyganodon</i>	<i>cataracta</i>	981.103.002	Digby	Porcupine Lake	1981-07-15	Davis, D. S.
<i>Pyganodon</i>	<i>cataracta</i>	16865	Digby	Sandy Cove	2005-09-27	Proulx, G.
<i>Pyganodon</i>	<i>cataracta</i>	15859	Guysborough	Charlie Lake	1999-08-12	Young, M. & S. MacPhee

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<i>Pyganodon</i>	<i>cataracta</i>	15852	Guysborough	Country Harbour Lake	1999-08-12	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	973.536.002	Guysborough	Crows Nest	1973-08-14	Davis, D. S.
<i>Pyganodon</i>	<i>cataracta</i>	15914	Guysborough	Cuddihy Lake	2000-07-11	Not recorded
<i>Pyganodon</i>	<i>cataracta</i>	15803	Guysborough	Cumminger Lake	1999-08-13	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	15915	Guysborough	Cumminger Lake	2000-06-20	Not recorded
<i>Pyganodon</i>	<i>cataracta</i>	15818	Guysborough	Eight Island Lake	1999-08-17	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	15863	Guysborough	Gaspereaux Lake	1999-08-03	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	15922	Guysborough	George Lake	2000-07-06	Not recorded
<i>Pyganodon</i>	<i>cataracta</i>	15847	Guysborough	Giants Lake	1999-08-12	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	15825	Guysborough	Goshen Lake	1999-08-25	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	15815	Guysborough	Kells Lake	1999-08-17	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	15901	Guysborough	MacPherson Lake	2000-06-16	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	15821	Guysborough	McLeod Lake	1999-08-18	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	15917	Guysborough	McLeod Lake	2000-06-20	Not recorded
<i>Pyganodon</i>	<i>cataracta</i>	15912	Guysborough	McLeod Lake	2000-06-20	Not recorded
<i>Pyganodon</i>	<i>cataracta</i>	15902	Guysborough	Meaghers Lake	2000-06-16	Not recorded
<i>Pyganodon</i>	<i>cataracta</i>	15819	Guysborough	Mels Lake	1999-08-17	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	15822	Guysborough	Morrisons Lake	1999-08-18	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	15855	Guysborough	Moshers Lake	1999-08-12	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	952.014.002	Guysborough	Mulgrave	1952-07-05	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	15932	Guysborough	Olsen Lake	1999-08-17	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	15813	Guysborough	Pringle Lake	1999-08-17	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	15920	Guysborough	Sheas Lake	2000-07-11	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	15872	Guysborough	Stewart Lake	1999-08-11	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	15909	Guysborough	Stewart Lake	2000-06-14	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	15832	Guysborough	Summers Lake Brook	1999-08-19	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	15929	Guysborough	Susies Lake	2000-07-14	Not recorded
<i>Pyganodon</i>	<i>cataracta</i>	15897	Guysborough	Wallace Lake	1999-08-13	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	15806	Guysborough	Wallace Lake	1999-08-13	Young, M. & S. MacPhee
<i>Pyganodon</i>	<i>cataracta</i>	15921	Guysborough	West River Lake	2000-07-06	Not recorded
<i>Pyganodon</i>	<i>cataracta</i>	980.026.001	Halifax	Beaver Bank	1980-08-10	Davis, D. S. & G. Davis
<i>Pyganodon</i>	<i>cataracta</i>	971.520.001	Halifax	Brine Lake	1950-06-25	Bridgeford, H. & D.A. Livingstone.
<i>Pyganodon</i>	<i>cataracta</i>	971.520.002	Halifax	Brine Lake	1950-07-23	Bridgeford, H. & D.A. Livingstone.
<i>Pyganodon</i>	<i>cataracta</i>	954.055.000	Halifax	Brine Lake	1954-07-09	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	16460	Halifax	Brine Lake	2002-10-24	Costelo, J. & P. Armstrong
<i>Pyganodon</i>	<i>cataracta</i>	15906	Halifax	Crooked Lake	2000-06-14	Not recorded

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<i>Pyganodon</i>	<i>cataracta</i>	948.068.001	Halifax	De Said Lake	1948-07-13	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	16089	Halifax	De Said Lake	2001-07-17	Not recorded
<i>Pyganodon</i>	<i>cataracta</i>	16088	Halifax	De Said Lake	2001-07-17	Archibald, D. & J. Costelo
<i>Pyganodon</i>	<i>cataracta</i>	16440	Halifax	Dry Lake	2000-09-22	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	975.207.001	Halifax	Dutch Settlement	1975-06-23	Davis, D. S. & P. McClung
<i>Pyganodon</i>	<i>cataracta</i>	16424	Halifax	First Lake	2002-07-04	N.S.D.N.R.
<i>Pyganodon</i>	<i>cataracta</i>	954.059.000	Halifax	Fish Lake	1954-07-13	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	954.048.002	Halifax	Fish Lake	1954-07-13	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	954.048.004	Halifax	Fish Lake	1954-07-13	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	5516	Halifax	Grand Lake	1975-09-27	Sollows, J.
<i>Pyganodon</i>	<i>cataracta</i>	978.078.008	Halifax	Grand Lake	1978-11-18	Davis, D. S.
<i>Pyganodon</i>	<i>cataracta</i>	16634	Halifax	Kinsac Lake	2003-10-24	Costelo, J.
<i>Pyganodon</i>	<i>cataracta</i>	987.040.008	Halifax	Lake Banook	1987-11-02	Davis, D. S.
<i>Pyganodon</i>	<i>cataracta</i>	16484	Halifax	Lake Egmont	2002-10-01	Archibald, D.
<i>Pyganodon</i>	<i>cataracta</i>	16467	Halifax	Lake Egmont	2002-10-25	Archibald, D.
<i>Pyganodon</i>	<i>cataracta</i>	16760	Halifax	Lake Loon	1981-09-07	Davis, D. S.
<i>Pyganodon</i>	<i>cataracta</i>	954.048.001	Halifax	Lake William	1954-07-13	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	16459	Halifax	Lily Lake	2002-10-16	Costelo, J. & D. Archibald
<i>Pyganodon</i>	<i>cataracta</i>	16405	Halifax	Little Sackville River	2003-07-08	White, T.
<i>Pyganodon</i>	<i>cataracta</i>	954.057.000	Halifax	Long Lake	1954-07-14	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	954.048.005	Halifax	Lower Egmont Lake	1954-07-13	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	11665	Halifax	Lower Egmont Lake	1990-07-29	Parker, Etta
<i>Pyganodon</i>	<i>cataracta</i>	16083	Halifax	Morris Lake	2001-07-17	Archibald, D. & J. Costelo
<i>Pyganodon</i>	<i>cataracta</i>	16081	Halifax	Musquodoboit	2001-08-20	Archibald, D.
<i>Pyganodon</i>	<i>cataracta</i>	16076	Halifax	Musquodoboit River	2001-09-14	Archibald, D.
<i>Pyganodon</i>	<i>cataracta</i>	16141	Halifax	Penhorn Lake	2001-07-25	Stewart, H.
<i>Pyganodon</i>	<i>cataracta</i>	969.116.001	Halifax	Petpeswick Lake	1969-08-05	Milligan, B. A. & P. Doleman
<i>Pyganodon</i>	<i>cataracta</i>	16463	Halifax	Preston Long Lake	2002-10-15	Costelo, J.
<i>Pyganodon</i>	<i>cataracta</i>	954.048.003	Halifax	Rocky Lake	1954-07-13	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	973.453.002	Halifax	Russell Lake	1972-07-24	Wright, B.
<i>Pyganodon</i>	<i>cataracta</i>	16091	Halifax	Russell Lake	2001-07-17	Archibald, D. & J. Costelo
<i>Pyganodon</i>	<i>cataracta</i>	16518	Halifax	Sackville River	2002-07-04	N.S.D.N.R.
<i>Pyganodon</i>	<i>cataracta</i>	16811	Halifax	Sackville River	2005-07-19	Chaisson, K. & J. Costelo
<i>Pyganodon</i>	<i>cataracta</i>	16812	Halifax	Sandy Lake	2005-07-19	Chaisson, Krista
<i>Pyganodon</i>	<i>cataracta</i>	980.060.002	Halifax	Second Lake	1980-11-21	Davis, D. S.
<i>Pyganodon</i>	<i>cataracta</i>	16744	Halifax	Second Lake	2004-06-24	Costelo, J. & I. Galvez

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<i>Pyganodon</i>	<i>cataracta</i>	16749	Halifax	Second Lake	2004-06-25	Costelo, J. & I. Galvez
<i>Pyganodon</i>	<i>cataracta</i>	16426	Halifax	Shubenacadie Grand Lake	2002-10-16	Costelo, J.
<i>Pyganodon</i>	<i>cataracta</i>	16464	Hants	Lewis Lake	2002-07-04	N.S.D.N.R.
<i>Pyganodon</i>	<i>cataracta</i>	16784	Hants	Lewis Lake	2005-04-28	Hebda, A.
<i>Pyganodon</i>	<i>cataracta</i>	16519	Hants	Lily Lake	2002-07-05	N.S.D.N.R.
<i>Pyganodon</i>	<i>cataracta</i>	16499	Hants	Lily Lake	2002-08-07	N.S.D.N.R.
<i>Pyganodon</i>	<i>cataracta</i>	16184	Hants	Maitland Millpond	2001-08-09	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	16144	Hants	Maitland Millpond	2001-10-13	Stewart, H.
<i>Pyganodon</i>	<i>cataracta</i>	16494	Hants	Matt's Pond	2002-07-08	N.S.D.N.R.
<i>Pyganodon</i>	<i>cataracta</i>	16398	Hants	Nine Mile River	2003-09-09	March, K.
<i>Pyganodon</i>	<i>cataracta</i>	16391	Hants	Noel Lake	1999-07-13	Hall, R.
<i>Pyganodon</i>	<i>cataracta</i>	16502	Hants	Noel Lake	2002-10-11	N.S.D.N.R.
<i>Pyganodon</i>	<i>cataracta</i>	16501	Hants	Pigott Lake	2002-07-11	N.S.D.N.R.
<i>Pyganodon</i>	<i>cataracta</i>	16515	Hants	Savage Lake	2003-07-18	N.S.D.N.R.
<i>Pyganodon</i>	<i>cataracta</i>	16506	Hants	Shey Lake	2003-07-18	N.S.D.N.R.
<i>Pyganodon</i>	<i>cataracta</i>	980.033.002	Hants	South Maitland	1980-09-11	Davis, D. S.
<i>Pyganodon</i>	<i>cataracta</i>	16516	Hants	Starks Lake	2003-07-30	Archibald, D.
<i>Pyganodon</i>	<i>cataracta</i>	971.517.000	Hants	Uniacke Lake	1968-07-24	Gilhen, J.
<i>Pyganodon</i>	<i>cataracta</i>	16485	Hants	Windsor Forks	2002-07-20	N.S.D.N.R.
<i>Pyganodon</i>	<i>cataracta</i>	11810	Inverness	Black River	1992-07-10	Gilhen, J. et al
<i>Pyganodon</i>	<i>cataracta</i>	16584	Inverness	Black River	1999-08-06	MacLean, V. & J. MacDonald
<i>Pyganodon</i>	<i>cataracta</i>	16645	Inverness	Black River	2000-07-27	Hebda, A. & J. Gilhen
<i>Pyganodon</i>	<i>cataracta</i>	16565	Inverness	First Lake O'Law	1999-07-28	MacLean, V. & J. MacDonald
<i>Pyganodon</i>	<i>cataracta</i>	16620	Inverness	Grand Lac	1999-08-13	MacLean, V. & D. Anderson
<i>Pyganodon</i>	<i>cataracta</i>	16576	Inverness	Hays River	1999-08-06	MacLean, V. & J. MacDonald
<i>Pyganodon</i>	<i>cataracta</i>	975.251.002	Inverness	Lake Ainslie	1975-08-08	Wright, B.
<i>Pyganodon</i>	<i>cataracta</i>	16593	Inverness	Lake Ainslie	1999-08-06	MacLean, V. & D. Anderson
<i>Pyganodon</i>	<i>cataracta</i>	16592	Inverness	Lake Ainslie	1999-08-06	MacLean, V. & D. Anderson
<i>Pyganodon</i>	<i>cataracta</i>	16591	Inverness	Lake Ainslie	1999-08-06	MacLean, V. & D. Anderson
<i>Pyganodon</i>	<i>cataracta</i>	16604	Inverness	Lake Ainslie	1999-08-10	MacLean, V., J. MacDonald & D. Anderson
<i>Pyganodon</i>	<i>cataracta</i>	16602	Inverness	Lake Ainslie	1999-08-10	MacLean, V., J. MacDonald & D. Anderson
<i>Pyganodon</i>	<i>cataracta</i>	16567	Inverness	Lake O'Law Provincial Park	1999-07-28	MacLean, V. & J. MacDonald
<i>Pyganodon</i>	<i>cataracta</i>	952.012.001	Inverness	MacIntyre Lake	1952-07-04	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	952.012.002	Inverness	Northeast Margaree River	1952-07-04	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	952.014.003	Inverness	Northeast Margaree River	1952-07-05	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	16618	Inverness	Petit Lac	1999-08-10	MacLean, V.

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<i>Pyganodon</i>	<i>cataracta</i>	16617	Inverness	Petit Lac	1999-08-10	MacLean, V.
<i>Pyganodon</i>	<i>cataracta</i>	16624	Inverness	Presqu'ile Lake	2002-09-07	Lambert, S.
<i>Pyganodon</i>	<i>cataracta</i>	16600	Inverness	River Denys	1999-08-08	Kennedy, A.
<i>Pyganodon</i>	<i>cataracta</i>	16599	Inverness	River Denys	1999-08-08	Kennedy, A.
<i>Pyganodon</i>	<i>cataracta</i>	16598	Inverness	River Denys	1999-08-08	Kennedy, A.
<i>Pyganodon</i>	<i>cataracta</i>	16597	Inverness	River Denys	1999-08-08	Kennedy, A.
<i>Pyganodon</i>	<i>cataracta</i>	16596	Inverness	River Denys	1999-08-08	Kennedy, A.
<i>Pyganodon</i>	<i>cataracta</i>	16595	Inverness	River Denys	1999-08-08	MacLean, V. & D. Anderson
<i>Pyganodon</i>	<i>cataracta</i>	16573	Inverness	Second Lake O'Law	1999-07-29	MacLean, V. & J. MacDonald
<i>Pyganodon</i>	<i>cataracta</i>	16572	Inverness	Second Lake O'Law	1999-07-29	MacLean, V. & J. MacDonald
<i>Pyganodon</i>	<i>cataracta</i>	16571	Inverness	Second Lake O'Law	1999-07-29	MacLean, V. & J. MacDonald
<i>Pyganodon</i>	<i>cataracta</i>	16758	Inverness	Trout Brook	1965-10-09	Davis, D. S.
<i>Pyganodon</i>	<i>cataracta</i>	16587	Inverness	Trout Brook	1999-08-06	MacLean, V. & D. Anderson
<i>Pyganodon</i>	<i>cataracta</i>	953.010.000	Kings	Cornwallis River	1953-07-09	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	11793	Kings	Miners Meadow	1992-04-01	Forsythe, B. L.
<i>Pyganodon</i>	<i>cataracta</i>	16820	Lunenburg	Big Mushamush Lake	2005-08-11	Mills, J. & M. Munro
<i>Pyganodon</i>	<i>cataracta</i>	977.250.001	Lunenburg	Big Mushamush Lake	1976-07-01	Davis, D. S.
<i>Pyganodon</i>	<i>cataracta</i>	986.146.002	Lunenburg	Big Mushamush Lake	1984-09-08	Bohlmann, U.
<i>Pyganodon</i>	<i>cataracta</i>	16486	Lunenburg	Clearwater Lake	2002-08-14	N.S.D.N.R.
<i>Pyganodon</i>	<i>cataracta</i>	981.100.001	Lunenburg	Colpton	1981-05-08	Gilhen, J.
<i>Pyganodon</i>	<i>cataracta</i>	11727	Lunenburg	Colpton	1987-05	Gilhen, J.
<i>Pyganodon</i>	<i>cataracta</i>	978.051.002	Lunenburg	Fancy Lake	1978-07-27	Davis, D. S.
<i>Pyganodon</i>	<i>cataracta</i>	969.103.002	Lunenburg	Lake Lawson	1969-06-18	Davis, D. S.
<i>Pyganodon</i>	<i>cataracta</i>	16616	Not recorded	Cape Breton Island	1999-08-10	MacLean, V.
<i>Pyganodon</i>	<i>cataracta</i>	16615	Not recorded	Cape Breton Island	1999-08-10	MacLean, V.
<i>Pyganodon</i>	<i>cataracta</i>	16491	Pictou	Big Caribou River	2002-07-24	Archibald, D. & A. Jackson
<i>Pyganodon</i>	<i>cataracta</i>	16490	Pictou	Big Caribou River	2002-07-24	Archibald, D. & A. Jackson
<i>Pyganodon</i>	<i>cataracta</i>	16660	Pictou	Black Brook Lake	2001-07-23	McChesney, S. & J. Duncan
<i>Pyganodon</i>	<i>cataracta</i>	16057	Pictou	Dryden Lake	2001-09-18	Archibald, D.
<i>Pyganodon</i>	<i>cataracta</i>	16657	Pictou	Eden Lake	2001-07-25	McChesney, S. & J. Duncan
<i>Pyganodon</i>	<i>cataracta</i>	971.508.003	Pictou	Grant Lake	1946-06-10	Cox, E. E & G.H. Cox
<i>Pyganodon</i>	<i>cataracta</i>	971.508.001	Pictou	Grant Lake	c. 1950	Cox, G.H.
<i>Pyganodon</i>	<i>cataracta</i>	971.508.002	Pictou	Grant Lake	1946-06-10	Not recorded
<i>Pyganodon</i>	<i>cataracta</i>	16659	Pictou	Gunn Lake	2001-07-23	McChesney, S. & J. Duncan
<i>Pyganodon</i>	<i>cataracta</i>	16658	Pictou	Indian Lake	2001-07-25	McChesney, S. & J. Duncan
<i>Pyganodon</i>	<i>cataracta</i>	16511	Pictou	Middle River	2003-10-28	Archibald, D.

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Genus	Species	Catalogue No.	County	Locality	Date Collected	Collector
<i>Pyganodon</i>	<i>cataracta</i>	16656	Pictou	St. Marys River	2001-07-25	McChesney, S. & J. Duncan
<i>Pyganodon</i>	<i>cataracta</i>	16507	Pictou	Sutherlands Lake	2003-09-24	Archibald, D. & R. Hall
<i>Pyganodon</i>	<i>cataracta</i>	16770	Queens	Grafton Lake	1994	Not recorded
<i>Pyganodon</i>	<i>cataracta</i>	972.591.013	Queens	Upper Silver Lake	1972-07-06	Kerekes, J. R. B.
<i>Pyganodon</i>	<i>cataracta</i>	16527	Richmond	Fergusons Lake	2001-07-24	Gouthro, D. & W. MacLean
<i>Pyganodon</i>	<i>cataracta</i>	977.235.000	Richmond	Lake Uist	1977-07-29	Scott, Fred W.
<i>Pyganodon</i>	<i>cataracta</i>	952.012.003	Richmond	Loch Lomond	1952-07-04	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	11228	Richmond	Loch Lomond	1989-06-20	Wright, B.
<i>Pyganodon</i>	<i>cataracta</i>	16526	Richmond	Long Lake	2001-07-30	Gouthro, D. & W. MacLean
<i>Pyganodon</i>	<i>cataracta</i>	971.509.000	Shelburne	Horseshoe Lake	c. 1950	Cox, G.H.
<i>Pyganodon</i>	<i>cataracta</i>	16614	Victoria	French River	1999-08-10	MacLean, V.
<i>Pyganodon</i>	<i>cataracta</i>	16613	Victoria	French River	1999-08-10	MacLean, V.
<i>Pyganodon</i>	<i>cataracta</i>	16612	Victoria	French River	1999-08-10	MacLean, V.
<i>Pyganodon</i>	<i>cataracta</i>	976.328.001	Victoria	Freshwater Lake	1976-08-12	Davis, D. S. & A. Wilson
<i>Pyganodon</i>	<i>cataracta</i>	16623	Victoria	Freshwater Lake	2002-08-12	Lambert, S.
<i>Pyganodon</i>	<i>cataracta</i>	16621	Victoria	MacKenzie Pond	1999-07-22	Banks, Dan
<i>Pyganodon</i>	<i>cataracta</i>	953.011.000	Yarmouth	Killams Lake	1953-07-06	Athearn, H. D.
<i>Strophitus</i>	<i>undulatus</i>	16108	Cumberland	Vickery Lake	2001-06-20	Hall, R.
<i>Strophitus</i>	<i>undulatus</i>	16382	Cumberland	Vickery Lake	2002-07-22	Hall, R.
Undetermined	sp.	14117	Lunenburg	LaHave River	c. 1991	Not recorded

Appendix III

Unionacea specimen lots from outside Nova Scotia in MIMS database.

Included are all lots collected in New Brunswick, the island of Newfoundland, Ontario, Quebec, Northern United States of America and other parts of the world. Several smaller collections at the Nova Scotia Museum have not been curated, but will be incorporated in the future.

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Genus	Species	Catalogue No.	Continent	Country	Prov/Terr/State	County	Locality	Date Collected	Collector
<i>Actinonaias</i>	<i>carinata</i>	970.031.010	North America	Canada	Ontario	Not recorded	Mimico Lake	1960-09-01	Miller, H.
<i>Actinonaias</i>	<i>carinata</i>	2714	North America	USA	Kentucky	Warren	Martinsville Ford	Not recorded	Britt, J. E.
<i>Actinonaias</i>	<i>ellipsiformis</i>	2970	North America	USA	Michigan	Kalamazoo	Gull Lake Biological Site	1960-08-01	Grimm, W.
<i>Alasmidonta</i>	<i>heterodon</i>	948.067.000	North America	Canada	New Brunswick	Westmorland	North River	1948-07-16	Athearn, H. D.
<i>Alasmidonta</i>	<i>undulata</i>	948.065.000	North America	Canada	New Brunswick	Victoria	Aroostook River	1948-07-05	Athearn, H. D.
<i>Alasmidonta</i>	<i>undulata</i>	946.019.000	North America	Canada	New Brunswick	Westmorland	North River	1946-06-30	Athearn, H. D.
<i>Alasmidonta</i>	<i>undulata</i>	951.015.000	North America	Canada	New Brunswick	Westmorland	Petitcodiac River	1951-07-03	Athearn, H. D.
<i>Alasmidonta</i>	<i>undulata</i>	948.065.002	North America	Canada	New Brunswick	York	Nashwaak River	1948-07-05	Athearn, H. D.
<i>Alasmidonta</i>	<i>undulata</i>	948.064.000	North America	Canada	New Brunswick	York	Nashwaak River	1948-07-05	Athearn, H. D.
<i>Alasmidonta</i>	<i>varicosa</i>	948.063.000	North America	Canada	New Brunswick	Northumberland	Renous River	1948-07-06	Athearn, H. D.
<i>Alasmidonta</i>	<i>varicosa</i>	951.014.000	North America	Canada	New Brunswick	Westmorland	Petitcodiac River	1951-07-03	Athearn, H. D.
<i>Alasmidonta</i>	<i>varicosa</i>	969.010.007	North America	Canada	New Brunswick	York	Cranberry Lake	1969-07-09	Wright, S.
<i>Almeja</i>	<i>lacustre</i>	986.112.010	South America	Argentina	Unknown	Not recorded	"Norte Argentina"	1986	Not recorded
<i>Amblema</i>	<i>perplicata</i>	2558	North America	USA	Texas	Not recorded	Eagle Mountain Lake	Not recorded	Not recorded
<i>Amblema</i>	<i>peruviana</i>	5570	North America	USA	Michigan	Not recorded	Detroit	Not recorded	Not recorded
<i>Anadontides</i>	<i>crispata</i>	12080	South America	Brazil	Mato Grosso	Not recorded	Rio Nioaque	Not recorded	Not recorded
<i>Anodonta</i>	<i>alba</i>	12009	North America	USA	Florida	Not recorded	Treasure Island Beach	1981-06-01	Bohlmann, U.
<i>Anodonta</i>	<i>cygnaea</i>	4918	Europe	Germany	Schleswig-Holstein	Not recorded	Kiel	1970-06-01	Steiner, W.
<i>Anodonta</i>	<i>cygnaea</i>	983.101.007	Europe	Germany	Unknown	Not recorded	Lake Constance	1982-12-01	Brandt, T.
<i>Anodonta</i>	<i>cygnaea</i>	15400	Europe	Great Britain	England	Kent	River Darent	1961-04-16	Davis, D. S.
<i>Anodonta</i>	<i>cygnaea</i>	986.132.002	Europe	Poland	Unknown	Not recorded	Lake Wodydze	1986-08-10	Majka, C.
<i>Anodonta</i>	<i>cygnaea</i>	977.287.001	Europe	Sweden		Stockholms Lan	Lake Malaren	1965	Brandt, T.
<i>Anodonta</i>	<i>cygnaea</i>	977.291.001	Europe	Sweden		Stockholms Lan	Nya Kungshatt	1965	Brandt, T.
<i>Anodonta</i>	<i>cygnaea</i>	4336	Europe	Great Britain	England	Surrey	Furridown	1908	Paton, O. B.
<i>Anodonta</i>	<i>grandis</i>	4435	North America	Canada	Ontario	Carleton	Rideau River	Not recorded	Not recorded
<i>Anodonta</i>	<i>grandis</i>	3271	North America	USA	Maryland	Not recorded	Greenbelt Lake	1952-06-12	Mehring, A. L.
<i>Anodonta</i>	<i>grandis</i>	971.512.000	North America	USA	New York	Tompkins	Sphaerium Brook	1961-05-04	Ferguson, D. C.
<i>Anodonta</i>	<i>implicata</i>	954.053.000	North America	Canada	New Brunswick	Charlotte	St. James Township	1953-07-03	Athearn, H. D.
<i>Anodonta</i>	<i>implicata</i>	969.010.003	North America	Canada	New Brunswick	Queens	Grand Lake	1969-07-09	Wright, S.

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<i>Anodonta</i>	<i>implicata</i>	951.017.000	North America	Canada	New Brunswick	York	St. John River	1951-07-03	Athearn, H. D.
<i>Anodonta</i>	<i>implicata</i>	973.576.000	North America	USA	Massachusetts	Not recorded	Cape Cod	Not recorded	Not recorded
<i>Anodonta</i>	sp.	979.157.003	North America	Canada	Ontario	Lennox; Addington	Lake Ontario	1979-09-15	Wright, B.
<i>Aspatharia</i>	<i>wahlbergi</i>	983.149.002	Africa	Botswana	Unknown	Not recorded	Limpopo River	1983-08-01	Doleman, P. S.
<i>Cyprogenia</i>	<i>irrorata</i>	3300	North America	USA	Alabama	Not recorded	Tennessee River	1962-03-19	Allen, L. S.
<i>Ellipsaria</i>	<i>lineolata</i>	3297	North America	USA	Alabama	Not recorded	Tennessee River	1962-03-19	Allen, L. S.
<i>Ellipsaria</i>	<i>lineolata</i>	3296a	North America	USA	Alabama	Not recorded	Tennessee River	1962-03-19	Allen, L. S.
<i>Elliptio</i>	<i>buckleyi</i>	2359	North America	USA	Florida	Not recorded	Lake Monroe	1955	Clarke, R.
<i>Elliptio</i>	<i>complanata</i>	971.492.001	North America	Canada	New Brunswick	Charlotte	Lake Utopia	1967	Farley, J.
<i>Elliptio</i>	<i>complanata</i>	16674	North America	Canada	New Brunswick	King	Belleisle Bay	1960	Allen, L. S.
<i>Elliptio</i>	<i>complanata</i>	951.022.000	North America	Canada	New Brunswick	Kings	Kennebecasis River	1951-07-03	Athearn, H. D.
<i>Elliptio</i>	<i>complanata</i>	983.150.001	North America	Canada	New Brunswick	Northumberland	Glacier Lake	1983-08-22	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	948.074.000	North America	Canada	New Brunswick	Queens	Canaan River	1948-07-16	Athearn, H. D.
<i>Elliptio</i>	<i>complanata</i>	969.010.004	North America	Canada	New Brunswick	Queens	Grand Lake	1969-07-09	Wright, S.
<i>Elliptio</i>	<i>complanata</i>	948.076.000	North America	Canada	New Brunswick	Victoria	Aroostook River	1948-07-05	Athearn, H. D.
<i>Elliptio</i>	<i>complanata</i>	953.015.001	North America	Canada	New Brunswick	Victoria	Killam Brook	1953-07-06	Athearn, H. D.
<i>Elliptio</i>	<i>complanata</i>	951.023.000	North America	Canada	New Brunswick	Westmorland	Petitcodiac River	1951-07-03	Athearn, H. D.
<i>Elliptio</i>	<i>complanata</i>	16673	North America	Canada	New Brunswick	York	Magaguadavic Lake	1969	Krepinsky, O.
<i>Elliptio</i>	<i>complanata</i>	948.075.000	North America	Canada	New Brunswick	York	Nashwaak River	1948-07-05	Athearn, H. D.
<i>Elliptio</i>	<i>complanata</i>	951.020.000	North America	Canada	New Brunswick	York	Pokiok River	1951-07-03	Athearn, H. D.
<i>Elliptio</i>	<i>complanata</i>	16647	North America	Canada	Ontario	Carleton	Packenhams	1985-06-15	Wright, B.
<i>Elliptio</i>	<i>complanata</i>	16665	North America	Canada	Ontario	Carleton	Ottawa River	1967-08-04	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	4495	North America	Canada	Ontario	Carleton ?	Ottawa River	1967-08-04	Allen, L. S.
<i>Elliptio</i>	<i>complanata</i>	979.157.002	North America	Canada	Ontario	Lennox; Addington	Lake Ontario	1979-09-15	Wright, B.
<i>Elliptio</i>	<i>complanata</i>	4432	North America	Canada	Ontario	Not recorded	South Moira River	1930-07-05	Schmeck, E. H.
<i>Elliptio</i>	<i>complanata</i>	970.031.012	North America	Canada	Ontario	Not recorded	Toronto	1960-09-01	Miller, H.
<i>Elliptio</i>	<i>complanata</i>	16646	North America	U.S.A	Massachusetts		Cape Cod	1963	Fisher, E.
<i>Elliptio</i>	<i>complanata</i>	16662	North America	U.S.A.	Maine	Hancock	East Orland	Not recorded	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	10123	North America	USA	Georgia		Unknown	Not recorded	Davis, D. S.
<i>Elliptio</i>	<i>complanata</i>	3738	North America	USA	Delaware	Not recorded	Nanticoke River	1962-07-01	Grimm, F.

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<i>Elliptio</i>	<i>complanata</i>	3728	North America	USA	Delaware	Not recorded	Nanticoke River	1961-07-01	Allen, L. S.
<i>Elliptio</i>	<i>complanata</i>	2468	North America	USA	Maryland	Montgomery	Potomac River	1959-08-05	Grimm, W.
<i>Elliptio</i>	<i>complanata</i>	5246	North America	USA	North Carolina	Not recorded	Lake Waccamaw	1972-08-01	Thomas, M.
<i>Elliptio</i>	<i>complanata</i>	2467	North America	USA	Unknown	Frederick	Potomac River	1959-08-16	Grimm, W.
<i>Elliptio</i>	<i>complanata</i>	971.497.001	North America	USA	Vermont	Not recorded	Lake Champlain	1971-10-23	Wright, B.
<i>Elliptio</i>	<i>complanata</i>	971.490.001	North America	USA ?	Unknown	Not recorded	Not recorded	1971	Not recorded
<i>Elliptio</i>	<i>complanata</i>	971.504.000	North America	Unknown	Unknown	Not recorded	Not recorded	Not recorded	Cox, G. H.
<i>Elliptio</i>	<i>crassidens</i>	3296	North America	USA	Alabama	Not recorded	Tennessee River	1962-03-19	Allen, L. S.
<i>Elliptio</i>	<i>dilatata</i>	3298	North America	USA	Alabama	Not recorded	Tennessee River	1962-03-19	Allen, L. S.
<i>Elliptio</i>	<i>dilatata</i>	2971	North America	USA	Michigan	Kalamazoo	Gull Lake	Not recorded	Not recorded
<i>Elliptio</i>	<i>folliculata</i>	5254	North America	USA	North Carolina	Not recorded	Lake Waccamaw	1972-08-01	Thomas, M.
<i>Elliptio</i>	<i>lanceolata</i>	983.156.003	North America	USA	Iowa	Not recorded	Mississippi River	1983-08-13	Grigg, U. & S.E. Thomas
<i>Elliptio</i>	<i>producta</i>	3729	North America	USA	Delaware	Not recorded	Nanticoke River	1961-07-01	Allen, L. S.
<i>Elliptio</i>	<i>radiatus</i>	4493	North America	Canada	Ontario	Carleton ?	Ottawa River	1967-08-04	Allen, L. S.
<i>Elliptio</i>	<i>waccamawensis</i>	5252	North America	USA	North Carolina	Not recorded	Lake Waccamaw	1972-08-01	Thomas, M.
<i>Fusconaia</i>	<i>undata</i>	983.156.009	North America	USA	Iowa	Not recorded	Mississippi River	1983-08-15	Grigg, U. & S.E. Thomas
<i>Hyridella</i>	<i>mengesi</i>	4411	Australia	New Zealand	Unknown	Not recorded	Kaihoka Lakes	Not recorded	Not recorded
<i>Hyridella</i>	<i>menziesii</i>	5568a	Australia	New Zealand	Unknown	Not recorded	Lake Wahi	1970-05-11	Douglas, N.
<i>Hyridella</i>	<i>menziesii</i>	5496	Australia	New Zealand	Unknown	Not recorded	Lake Wahi	1970	Douglas, N.
<i>Lampsilis</i>	<i>fallaciosa</i>	3814	North America	USA	Illinois	Not recorded	Illinois River	1960-09-18	Mehring, A. L.
<i>Lampsilis</i>	<i>fallaciosa</i>	3813	North America	USA	Illinois	Not recorded	Illinois River	1960-09-18	Mehring, A. L.
<i>Lampsilis</i>	<i>hydiana</i>	1262	North America	USA	Texas	Newton	Deweyville	1955-08-01	Pettingell, J.
<i>Leptodea</i>	<i>ochracea</i>	954.067.000	North America	Canada	New Brunswick	Queens	St. John River	1954-07-16	Athearn, H. D.
<i>Leptodea</i>	<i>ochracea</i>	5243	North America	USA	North Carolina	Not recorded	Lake Waccamaw	1972-08-01	Thomas, M.
<i>Lampsilis</i>	<i>ovata</i>	983.156.010	North America	USA	Iowa	Not recorded	Mississippi River	1983-08-13	Grigg, U. & S.E. Thomas
<i>Lampsilis</i>	<i>radiata</i>	971.492.003	North America	Canada	New Brunswick	Charlotte	Lake Utopia	1967	Farley, J.
<i>Lampsilis</i>	<i>radiata</i>	953.021.000	North America	Canada	New Brunswick	Kings	Kennebecasis Bay	1952-07-03	Athearn, H. D.
<i>Lampsilis</i>	<i>radiata</i>	969.010.002	North America	Canada	New Brunswick	Queens	Grand Lake	1969-07-09	Wright, S.

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Genus	Species	Catalogue No.	Continent	Country	Prov/Terr/State	County	Locality	Date Collected	Collector
<i>Lampsilis</i>	<i>radiata</i>	948.078.000	North America	Canada	New Brunswick	Queen's	Canaan River	1948-07-16	Athearn, H. D.
<i>Lampsilis</i>	<i>radiata</i>	15732	North America	Canada	New Brunswick	Victoria	Saint John River	1999-08-10	Davis, D. S.
<i>Lampsilis</i>	<i>radiata</i>	979.157.001	North America	Canada	Ontario	Lennox; Addington	Lake Ontario	1979-09-15	Wright, B.
<i>Lampsilis</i>	<i>radiata</i>	970.031.009	North America	Canada	Ontario	Not recorded	Kushog Lake	1963-08-02	Miller, H.
<i>Lampsilis</i>	<i>radiata</i>	15399	North America	Canada	Quebec		Lac Saint-Louis	1995-06-26	Davis, D. S.
<i>Lampsilis</i>	<i>radiata</i>	971.510.000	North America	USA	New York	Not recorded	Oneida Lake	1961-05-20	Ferguson, D. C.
<i>Lampsilis</i>	<i>radiata</i>	2978	North America	USA	New York	Yates	Plum Point	1960	Wheeler, M.
<i>Lampsilis</i>	<i>radiata</i>	971.507.000	North America	Canada			Plaster Rock	Not recorded	Not recorded
<i>Lampsilis</i>	sp.	971.497.002	North America	USA	Vermont	Not recorded	Lake Champlain	1971-10-23	Wright, B.
<i>Lasmigona</i>	<i>compressa</i>	970.031.013	North America	Canada	Ontario	Not recorded	Humber Bay	1960-09-11	Miller, H.
<i>Leptodea</i>	<i>leptodon</i>	983.125.001	North America	Jamaica; West Indies	Unknown	Not recorded	Not recorded	ca. 1955	Roberts, E.
<i>Leptodea</i>	<i>leptodon</i>	983.156.006	North America	USA	Iowa	Not recorded	Mississippi River	1983-08-13	Grigg, U. & S.E. Thomas
<i>Leptodea</i>	<i>ochracea</i>	15403	North America	Canada	New Brunswick	York	Magaguadavic Lake	ca. 1969	Krepinsky, O.
<i>Ligumia</i>	<i>nasuta</i>	16831	North America	United States	New York	Chautauqua	Chautauqua Lake	2005-08-01	Cooper, D. A.
<i>Ligumia</i>	<i>recta</i>	3178		Unknown	Unknown	Not recorded	Not recorded	Not recorded	Not recorded
<i>Margaritifera</i>	<i>margaritifera</i>	954.044.001	North America	Canada	New Brunswick	Albert	Turtle Creek	1954-07-04	Athearn, H. D.
<i>Margaritifera</i>	<i>margaritifera</i>	951.012.000	North America	Canada	New Brunswick	Kings	Kennebecasis River	1951-07-03	Athearn, H. D.
<i>Margaritifera</i>	<i>margaritifera</i>	951.008.000	North America	Canada	New Brunswick	Kings	Kennebecasis River	1951-07-03	Athearn, H. D.
<i>Margaritifera</i>	<i>margaritifera</i>	953.007.000	North America	Canada	New Brunswick	Kings	Studholm Brook	1953-07-04	Athearn, H. D.
<i>Margaritifera</i>	<i>margaritifera</i>	948.062.000	North America	Canada	New Brunswick	Northumberland	Black River	1948-07-06	Athearn, H. D.
<i>Margaritifera</i>	<i>margaritifera</i>	948.060.000	North America	Canada	New Brunswick	Northumberland	Renous River	1948-07-06	Athearn, H. D.
<i>Margaritifera</i>	<i>margaritifera</i>	948.061.000	North America	Canada	New Brunswick	Westmorland	Nevers Brook	1948-07-16	Athearn, H. D.
<i>Margaritifera</i>	<i>margaritifera</i>	951.011.000	North America	Canada	New Brunswick	Westmorland	Petitcodiac River	1951-07-03	Athearn, H. D.
<i>Margaritifera</i>	<i>margaritifera</i>	951.013.000	North America	Canada	New Brunswick	Westmorland	Pollett River	1951-07-03	Athearn, H. D.
<i>Margaritifera</i>	<i>margaritifera</i>	16747	North America	Canada	Newfoundland		Garnish River	1975-07-01	Not recorded
<i>Margaritifera</i>	<i>margaritifera</i>	15402	North America	Canada	Newfoundland		Gould Brook	1999-03-16	Northcott, T.
<i>Megalonaias</i>	<i>gigantea</i>	3293	North America	USA	Alabama	Not recorded	Tennessee River	1962-03-19	Allen, L. S.
<i>Megalonaias</i>	<i>gigantea</i>	983.156.005	North America	USA	Iowa	Not recorded	Mississippi River	1983-08-13	Grigg, U. & S.E. Thomas

Freshwater Mussels
Non-Nova Scotia Records

Genus	Species	Catalogue No.	Continent	Country	Prov/Terr/State	County	Locality	Date Collected	Collector
<i>Megaloniaias</i>	<i>gigantea</i>	11731	North America	USA	Unknown		Mississippi River	Not recorded	Not recorded
<i>Obliquaria</i>	<i>reflexa</i>	3302a	North America	USA	Alabama		Tennessee River	1962-03-19	Allen, L. S.
<i>Obliquaria</i>	<i>reflexa</i>	3302	North America	USA	Alabama		Tennessee River	1962-03-19	Allen, L. S.
<i>Obovaria</i>	<i>castanea</i>	1263	North America	USA	Texas	Jefferson	Port Arthur	1955-08-01	Pettingell, J.
<i>Pleurobema</i>	<i>cordatum</i>	3295	North America	USA	Alabama		Tennessee River	1962-03-19	Allen, L. S.
<i>Pleurobema</i>	sp.	983.156.007	North America	USA	Iowa		Mississippi River	1983-08-13	Grigg, U. & S.E. Thomas
<i>Potamilus</i>	<i>alatus</i>	983.156.004	North America	USA	Iowa		Mississippi River	1983-08-13	Grigg, U. & S.E. Thomas
<i>Prisodon</i>	sp.	10126	South America					Not recorded	Not recorded
<i>Prisodon</i>	sp.	10127	South America					Not recorded	Not recorded
<i>Prisodon</i>	sp.	13479	South America	Brazil?				Not recorded	Not recorded
<i>Pyganodon</i>	<i>cataracta</i>	954.058.000	North America	Canada	New Brunswick	Charlotte	Denny Stream	1954-07-03	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	971.492.002	North America	Canada	New Brunswick	Charlotte	Lake Utopia	1967	Farley, J.
<i>Pyganodon</i>	<i>cataracta</i>	948.070.000	North America	Canada	New Brunswick	Madawaska	Lac Baker	1948-07-04	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	948.069.019	North America	Canada	New Brunswick	Westmorland	North River	1948-07-16	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	949.092.000	North America	Canada	New Brunswick	Westmorland	Pollett River	1949-05-01	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	948.069.003	North America	Canada	New Brunswick	Westmorland	Prices Brook	1948-07-16	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	948.069.001	North America	Canada	New Brunswick	Westmorland	Prices Brook	1948-07-16	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	969.010.006	North America	Canada	New Brunswick	York	Cranberry Lake	1969-07-09	Wright, S.
<i>Pyganodon</i>	<i>cataracta</i>	951.016.000	North America	Canada	New Brunswick	York	Pokiok River	1951-07-03	Athearn, H. D.
<i>Pyganodon</i>	<i>cataracta</i>	971.516.000	North America	Canada	Unknown			Not recorded	Not recorded
<i>Pyganodon</i>	<i>cataracta</i>	16512	North America	Canada		Queens	Little Ponhook Lake	2003-07-20	Archibald, D.
<i>Pyganodon</i>	<i>cataracta</i>	4083		Unknown	Unknown			Not recorded	Not recorded
<i>Quadrula</i>	<i>metanevra</i>	3299	North America	USA	Alabama		Tennessee River	1962-03-19	Allen, L. S.
<i>Quadrula</i>	<i>nodulata</i>	983.156.008	North America	USA	Iowa		Mississippi River	1983-08-13	Grigg, U. & S.E. Thomas
<i>Quadrula</i>	<i>pustulosa</i>	3301	North America	USA	Alabama		Tennessee River	1962-03-19	Allen, L. S.
<i>Rhombunio</i>	<i>litteralis</i>	12255	Europe	Portugal	Unknown		Rio Gradiana	1982-07-01	Not recorded
<i>Undetermined</i>	<i>undetermined</i>	983.147.001	Africa	Botswana	Unknown		Botete River	1981-12-01	Doleman, P. S.

Freshwater Mussels
Non-Nova Scotia Records

Genus	Species	Catalogue No.	Continent	Country	Prov/Terr/State	County	Locality	Date Collected	Collector
<i>Undetermined</i>	<i>undetermined</i>	983.153.001	Africa	United Arab Republic; Egypt	Unknown	Not recorded	Nile River	1983	Doleman, P. S.
<i>Undetermined</i>	<i>undetermined</i>	972.216.021	North America	Bermuda	Bermuda	Not recorded	Bermuda Biological Station; St. George's Island	1972-03-26	Doleman, P. S.
<i>Undetermined</i>	<i>undetermined</i>	983.156.011	North America	USA	Iowa	Not recorded	Mississippi River	1983-08-13	Grigg, U. & S.E. Thomas
<i>Undetermined</i>	<i>undetermined</i>	983.156.002	North America	USA	Iowa	Not recorded	Mississippi River	1983-08-13	Grigg, U. & S.E. Thomas
<i>Undetermined</i>	<i>undetermined</i>	978.035.003		Unknown	Unknown	Not recorded	Not recorded	Not recorded	Willson, D.
<i>Unio</i>	<i>caffer</i>	983.149.003	Africa	Botswana	Unknown	Not recorded	Limpopo River	1983-08-01	Doleman, P. S.
<i>Unio</i>	<i>kunenensis</i>	2254	Africa	Unknown	Unknown	Not recorded	Kunene River	Not recorded	LeRoux, P. J.
<i>Unio</i>	<i>literals ?</i>	1062	North America	USA	Unknown	Not recorded	Mississippi River	Not recorded	Not recorded
<i>Unio</i>	<i>pictorum</i>	5051	Europe	Austria	Unknown	Not recorded	Vienna	1971	Wilsch, S.
<i>Unio</i>	<i>pictorum</i>	4917	Europe	Germany	Schleswig-Holstein	Not recorded	Kiel	1971-05-01	Steiner, W.
<i>Unio</i>	<i>tigridis</i>	13480	Asia	Iraq			Lake Tharthar	1986-08-01	Zronek, J.?
<i>Unio</i>	<i>tumidus</i>	986.132.003	Europe	Poland	Unknown	Not recorded	Lake Wodydze	1986-08-10	Majka, C.
<i>Unio</i>	<i>tumidus</i>	977.290.004	Europe	Sweden	Unknown	Not recorded	Not recorded	1965	Brandt, T.
<i>Unio</i>	<i>tumidus</i>	973.429.009	Europe	Switzerland	Unknown	Not recorded	Lac Locarno	1973-08-12	Wright, B.
<i>Unio</i>	<i>tumidus</i>	4337	Europe	Great Britain	England	Surrey	Send on the River Wey	1908	Paton, O. B.
<i>Unio</i>	<i>tumidus</i>	10121	Europe	Great Britain	England	London	River Thames	1961	Elms, B.