



**STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES**

SR39 Appendix

June 2006

**Clinton River Assessment
Appendix**

James T. Francis
and
Robert C. Haas

MICHIGAN DEPARTMENT OF NATURAL RESOURCES FISHERIES DIVISION

Special Report 39 Appendix
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Printed under authority of Michigan Department of Natural Resources
Total number of copies printed 365 — Total cost \$2,101.83 — Cost per copy \$5.76



Suggested Citation Format

Francis, J.T., and R.C. Haas. 2006. Clinton River Assessment appendix. Michigan Department of Natural Resources, Fisheries Special Report 39 appendix, Ann Arbor.

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Appendix 1

Distribution Maps of Fish Species

This appendix contains known past and present fish distributions in the Clinton River system. Distribution of fishes were compiled from records located at the University of Michigan Museum of Zoology, Michigan Department of Natural Resources Institute for Fisheries Research, Michigan Department of Natural Resources Lake Erie Management Unit, and from the Michigan Department of Environmental Quality. Specific locations were plotted and extrapolated by the authors.

Habitat descriptions were compiled from the Fishes of Ohio (Trautman 1981), Freshwater Fishes of Canada (Scott and Crossman 1973), Fishes of Wisconsin (Becker 1983), Fishes of Missouri (Pflieger 1975), and Fishes of the Great Lakes Region (Hubbs and Lagler 1947).

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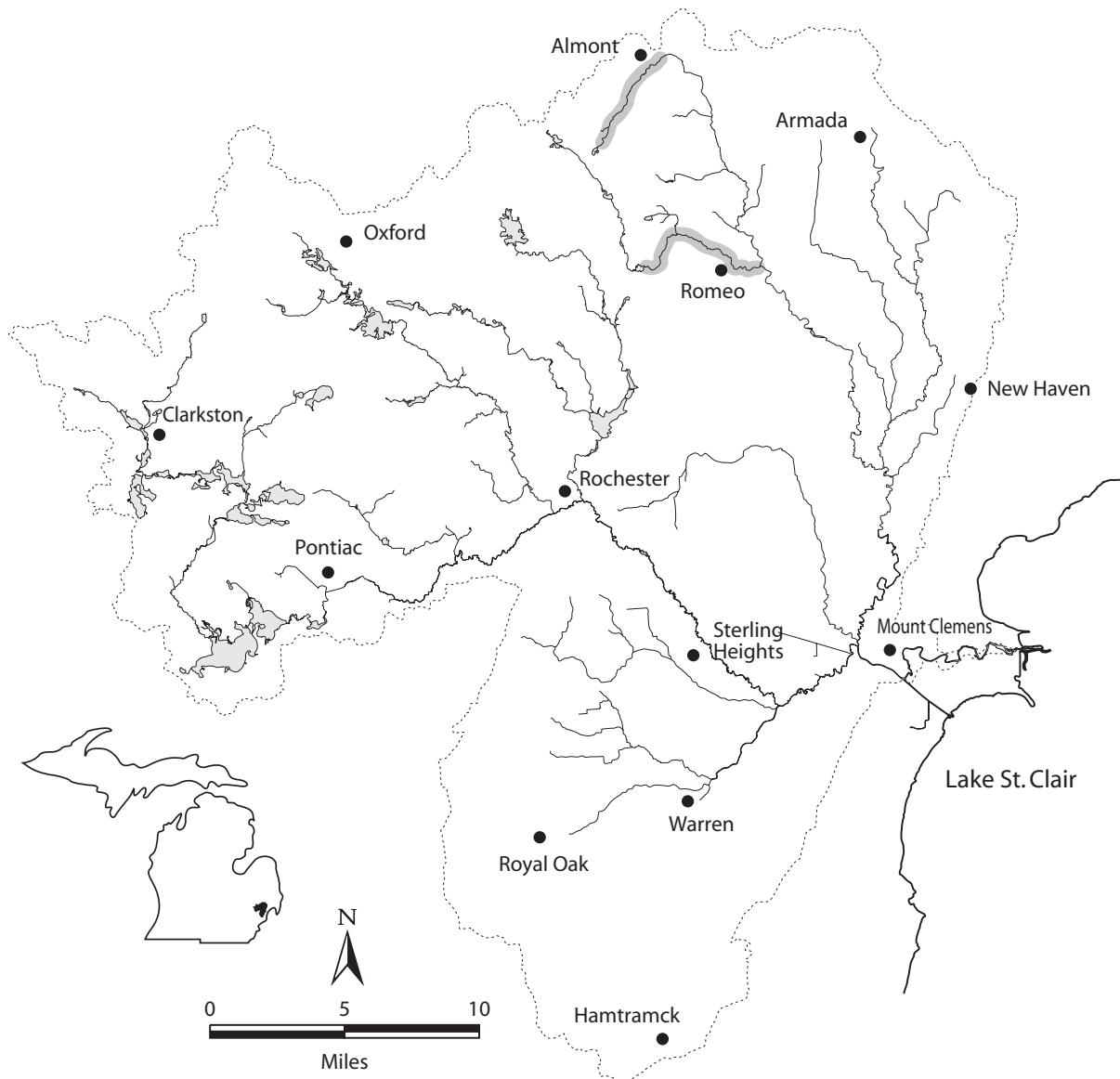
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Lake sturgeon.....	8	White sucker	39
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Largemouth bass	81	Yellow perch	91
Least darter	88		

Chestnut lamprey *Ichthyomyzon castaneus*

Habitat:

- feeding - stable substrate of sand and silt with light growth of *chara* or quiet backwaters of muck and silt with dense rooted vegetation
- moderate current
- clear moderate-size water

- spawning - moderate-size stream
- nest builder

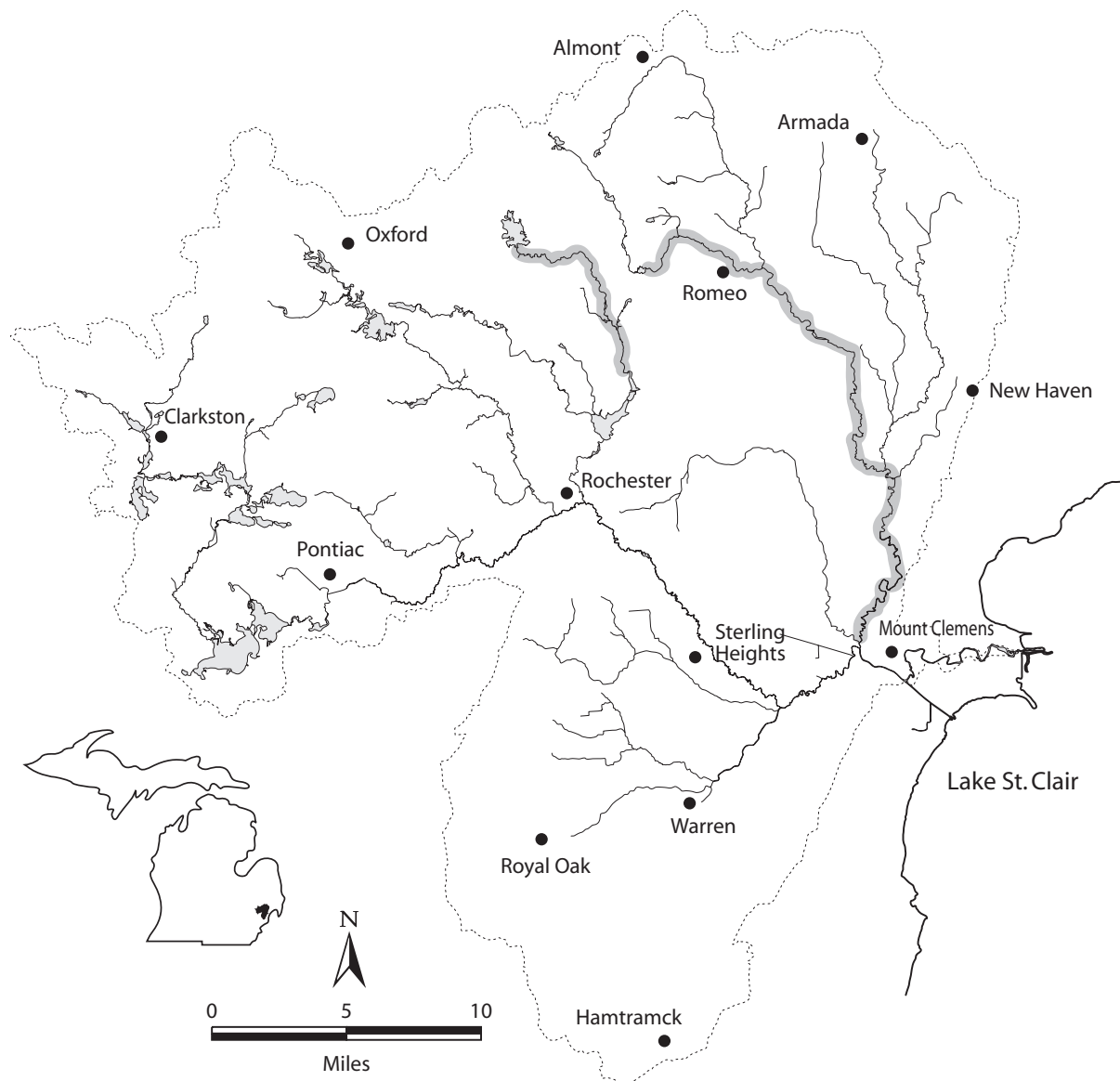


Northern brook lamprey *Ichthyomyzon fossor*

Habitat:

- feeding - young: low gradient, substrate with bars and beds of mixed sand and organic debris
- moderately warm water

- spawning - clear, high gradient streams (<15 feet wide)
- riffles with sand or gravel substrate



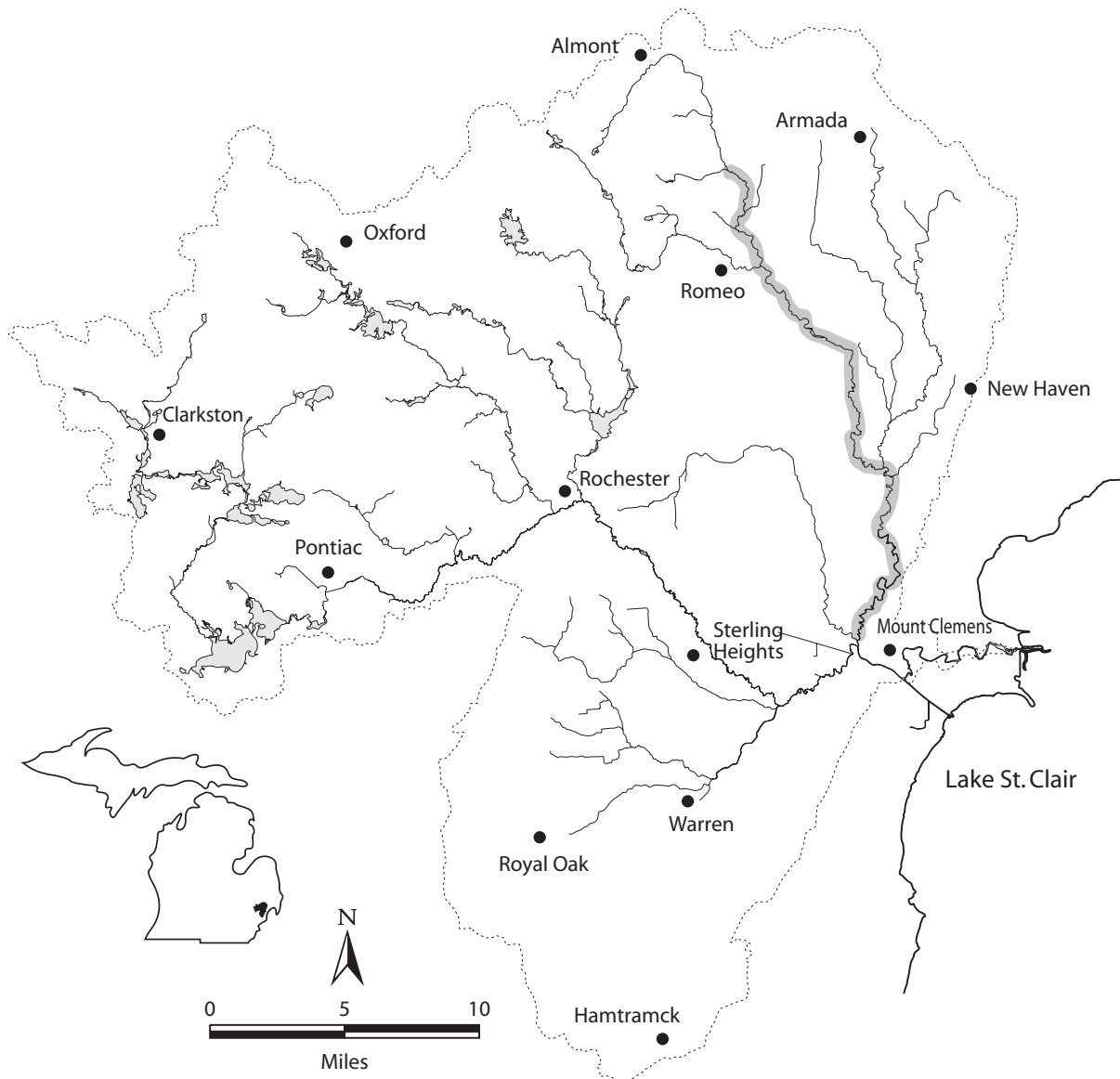
Silver lamprey *Ichthyomyzon unicuspis*

Habitat:

- feeding - young: sand, muck, or organic debris substrate
- adults: clear river water with prey species

- spawning - gravel and sand substrate
- moderate gradient
- moderate size stream
- cannot tolerate silt
- no dams

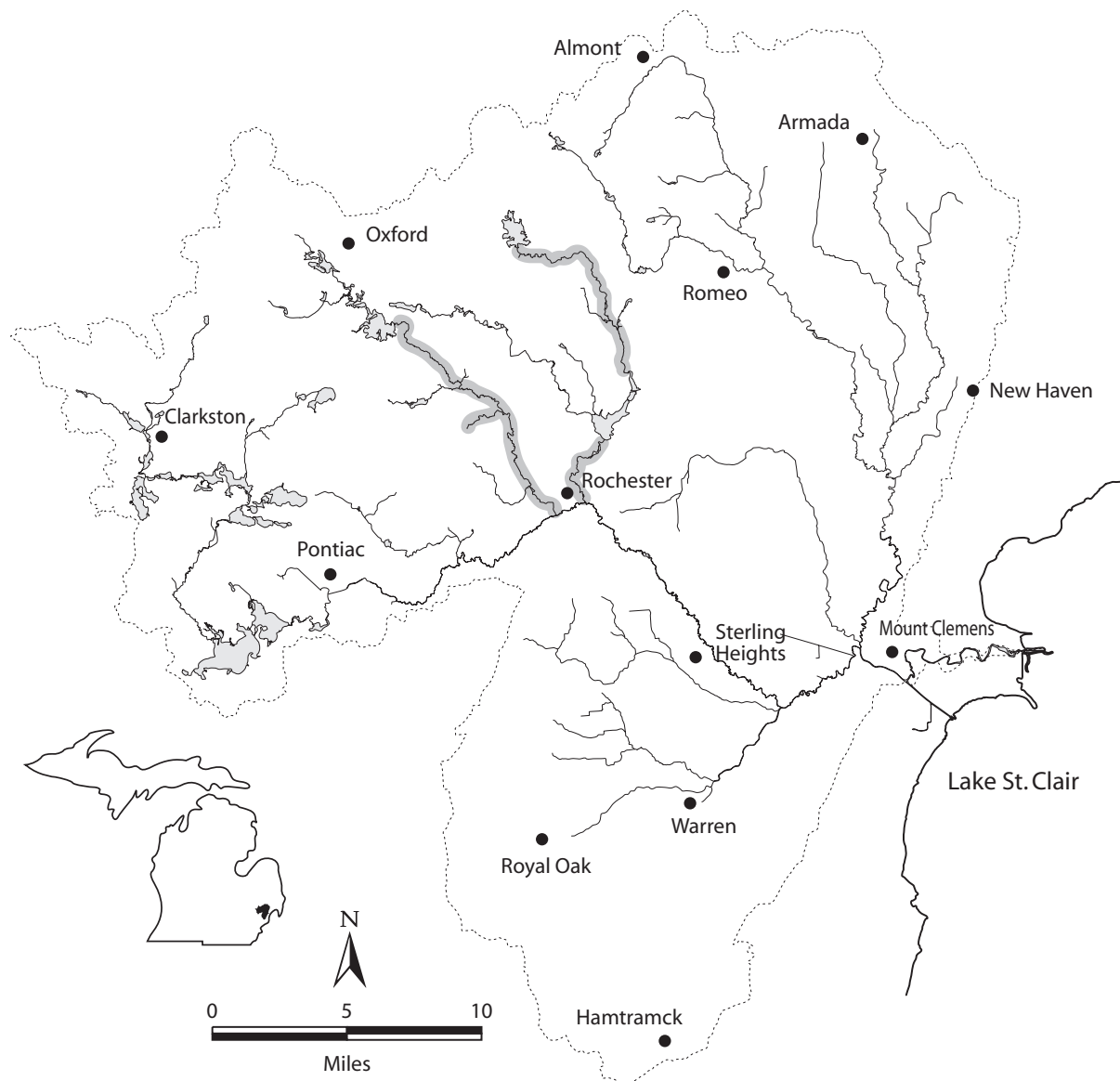
- winter refuge - ammocetes burrow for 4 to 7 years in mud and silt at river margins



American brook lamprey *Lampetra appendix*

Habitat:

- feeding - young: low gradient, substrate with bars and beds of mixed sand and organic debris
- clear cool stream water, sensitive to turbidity
- spawning - clear, high gradient streams (>15 feet wide)
- cold water
- gravel substrate
- winter refuge - sand or silt substrate for ammocetes

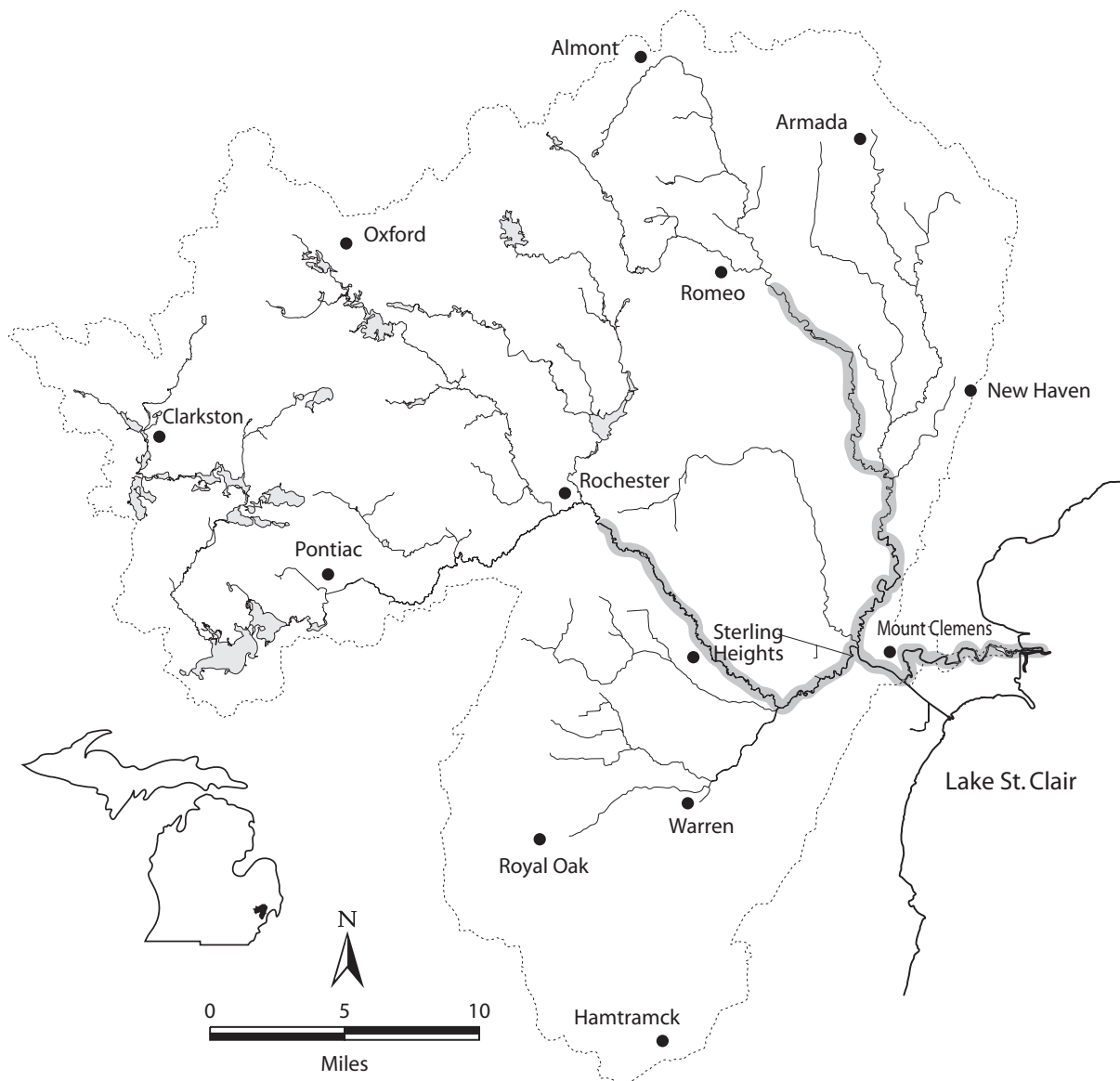


Sea lamprey *Petromyzon marinus*

Habitat:

- feeding - young: substrate with beds of sand mixed with organic debris
- cannot tolerate silt
- adults: clear cool water

- spawning - no dams
- riffles with sand and gravel substrates

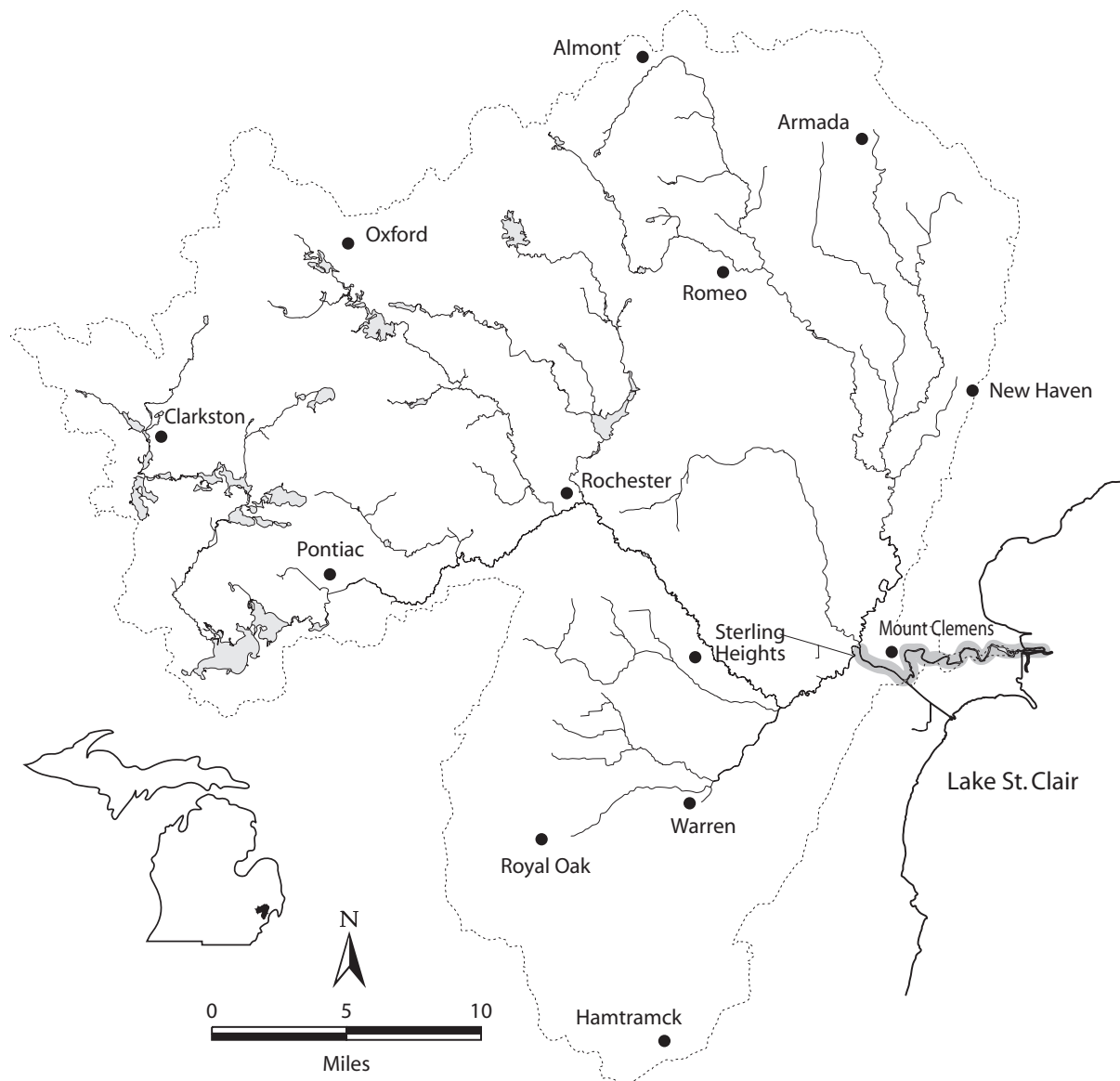


Lake sturgeon *Acipenser fulvescens* – threatened

Habitat:

- feeding - shoal areas of large rivers, lakes, and impoundments
- gravel, sand, rock substrates

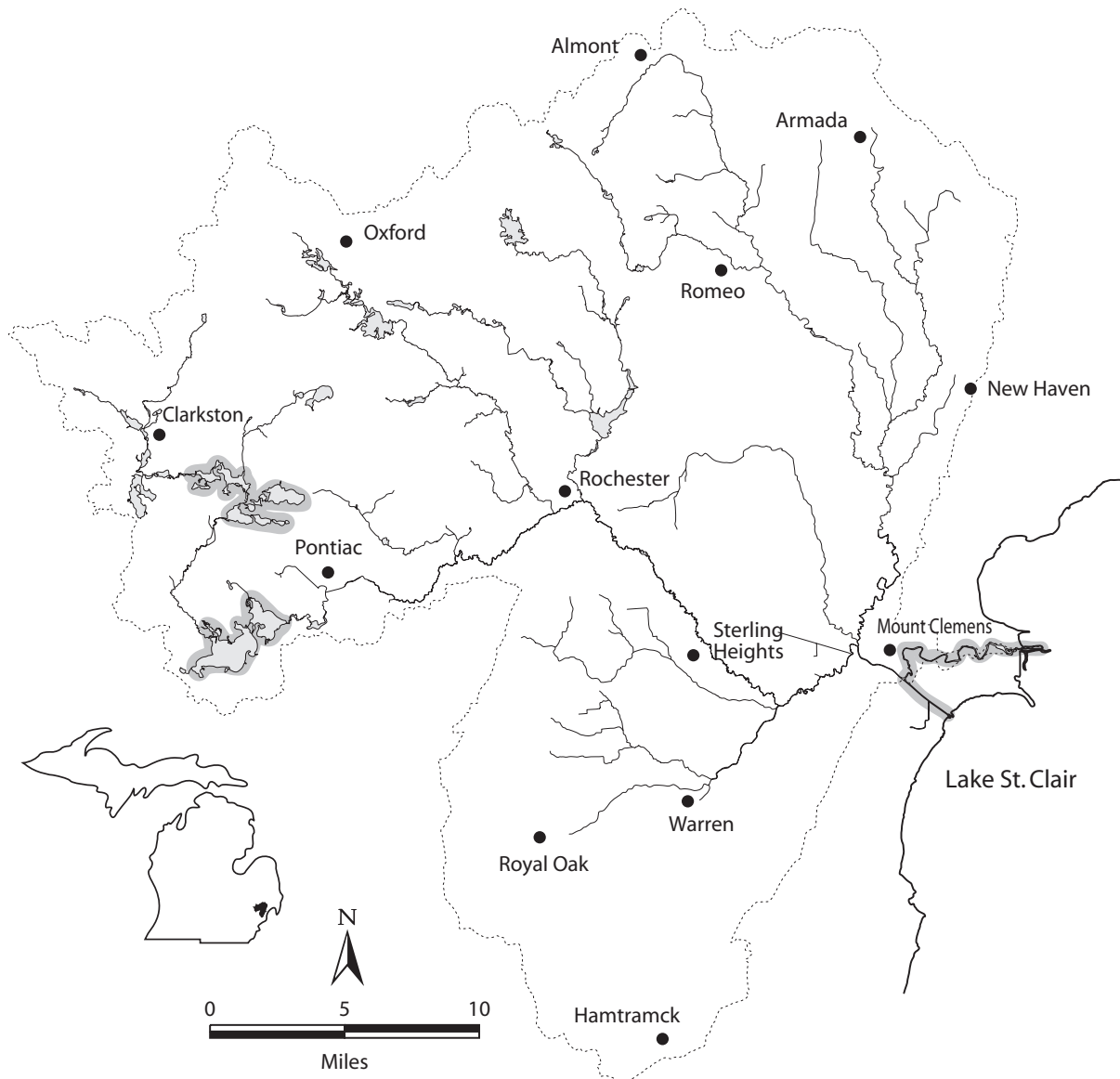
- spawning - in or before rapids, at the base of dams in rivers
- in 2-15 feet of water
- swift current
- rocky ledges or around rocky islands in Great Lakes



Longnose gar *Lepisosteus osseus*

Habitat:

- feeding - adults: in deeper water
 - young: in shallows
 - clear water, low-gradient streams, lakes, and impoundments
 - will feed in moderate current
 - aquatic vegetation preferred, but not necessary
 - open water fish
- spawning - warm shallow water of lakes or streams over vegetation



Bowfin *Amia calva*

Habitat:

- feeding - clear water
- abundant rooted aquatic vegetation
- low gradient streams, lakes, and impoundments
- tolerate only small amount of silt

- spawning - need vegetated water, 1 to 2 feet deep
- can spawn under logs, stumps, or bushes

- winter refuge - gravelly pockets among aquatic vegetation

