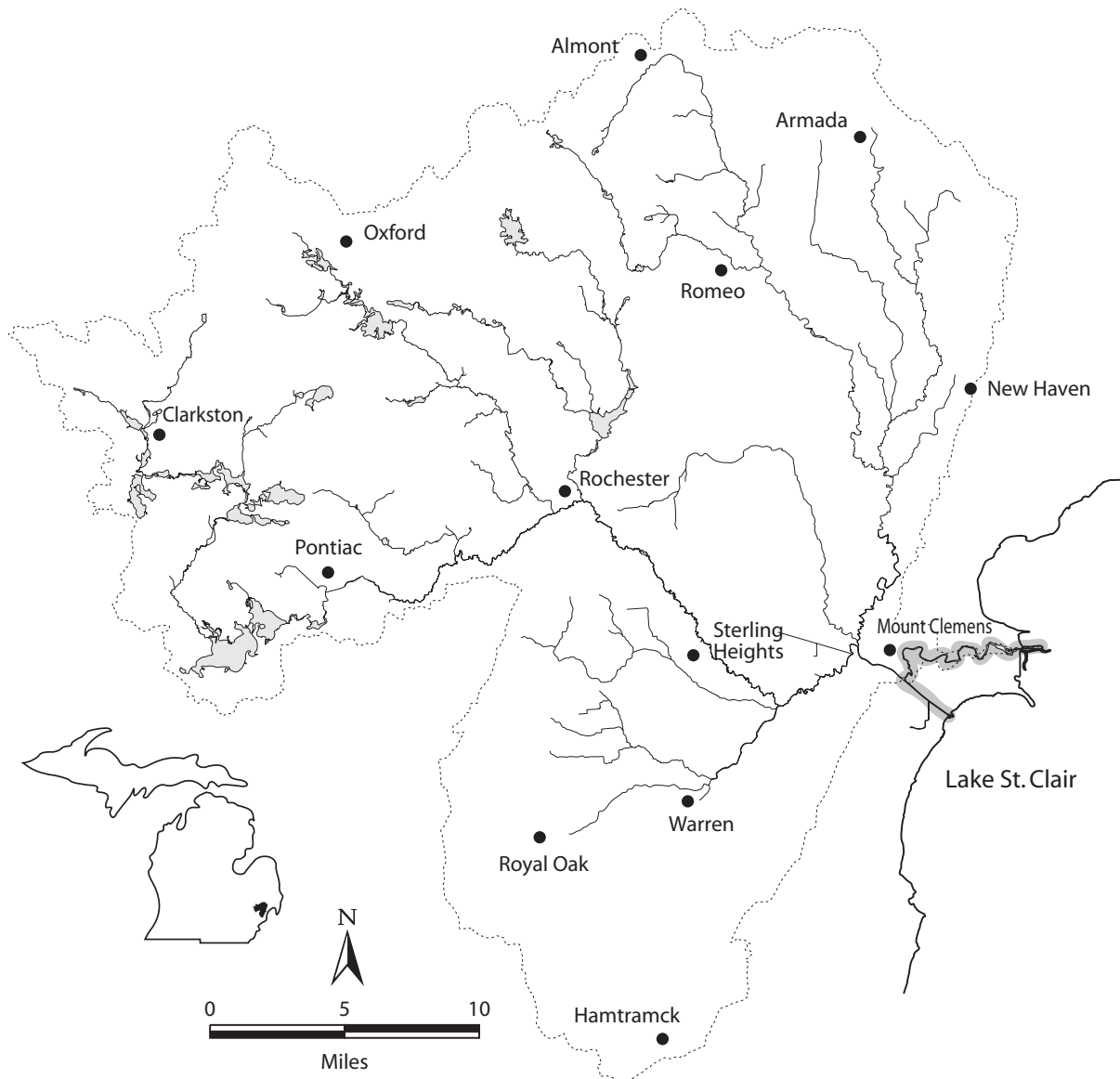


White perch *Morone americana*

Habitat:

feeding - clear, warm water of low-gradient streams, lakes, impoundments, and Lake St. Clair

spawning - shallow water over firm substrate

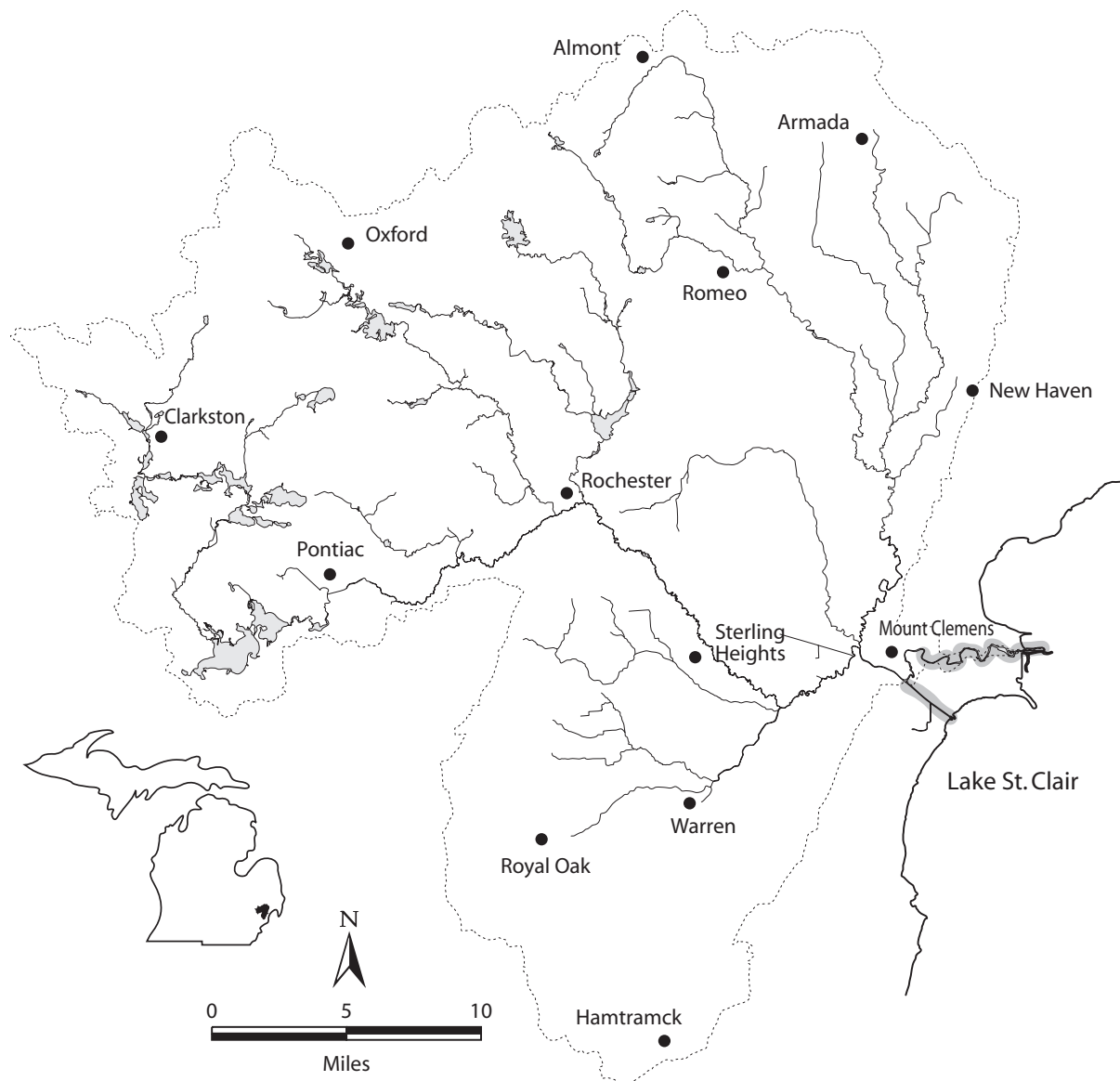


White bass *Morone chrysops*

Habitat:

- feeding - large lakes, impoundments, and Lake St. Clair
- clear water of 30 feet or less depth
- firm substrate

- spawning - tributary streams or shallow water of lakes
- over firm substrate



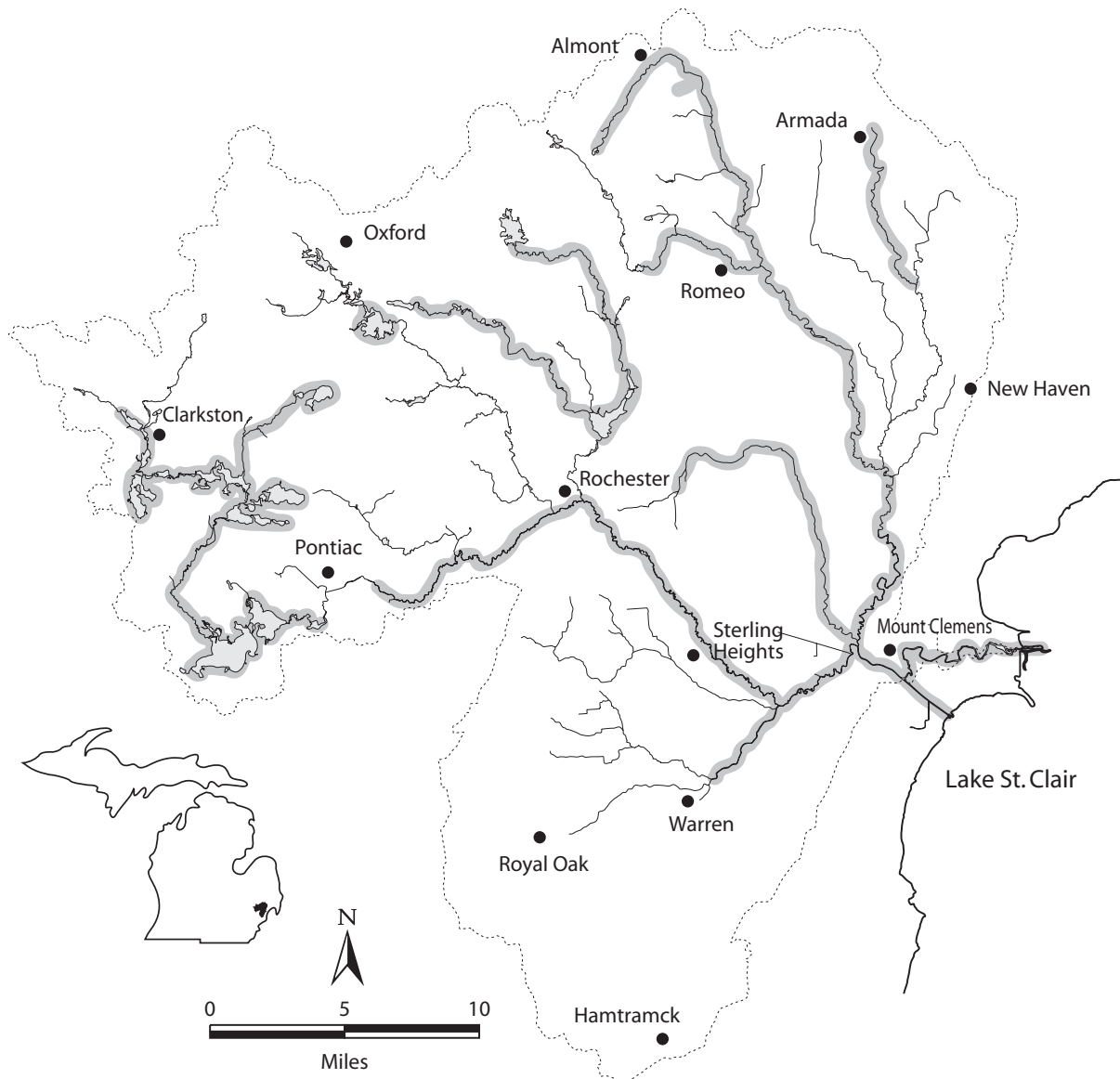
Rock bass *Ambloplites rupestris*

Habitat:

- feeding - clear, cool streams, rivers, and lakes
- rocky to sand substrate
- woody or vegetative cover

- spawning - sand or gravel nests
- shallow water

- winter refuge - deep water

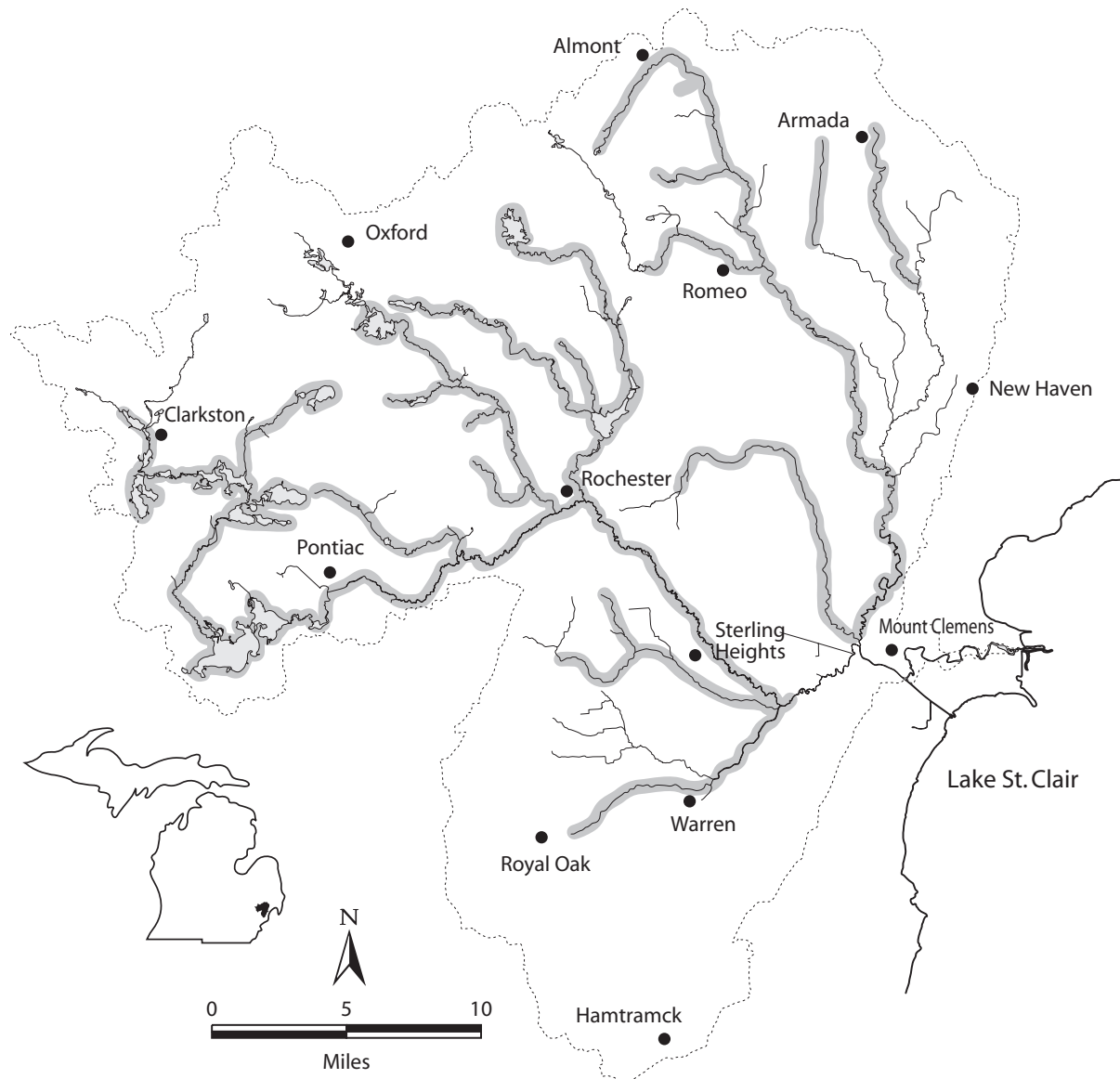


Green sunfish *Lepomis cyanellus*

Habitat:

- feeding - impoundments and lakes, and low-current streams and rivers
- no substrate preference

- spawning - nests in shallow areas sheltered by rocks, logs, or aquatic vegetation

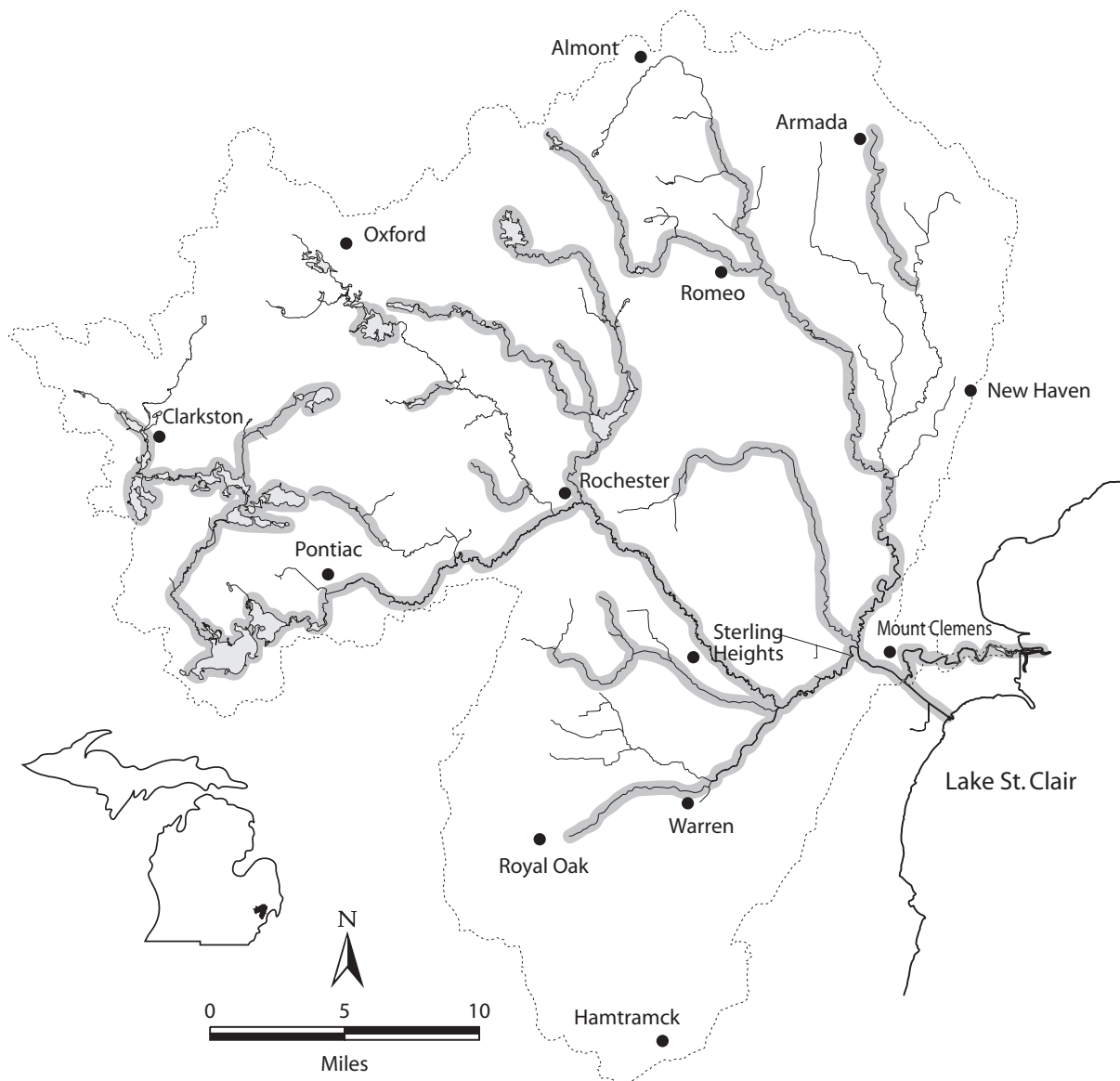


Pumpkinseed *Lepomis gibbosus*

Habitat:

- feeding - non-flowing clear water in streams and rivers; also lakes and impoundments
- muck or sand partly covered with organic debris substrate
- dense beds of submerged aquatic vegetation

- spawning - nest in sand, gravel, or rock substrate
- in shallow water near submerged vegetation

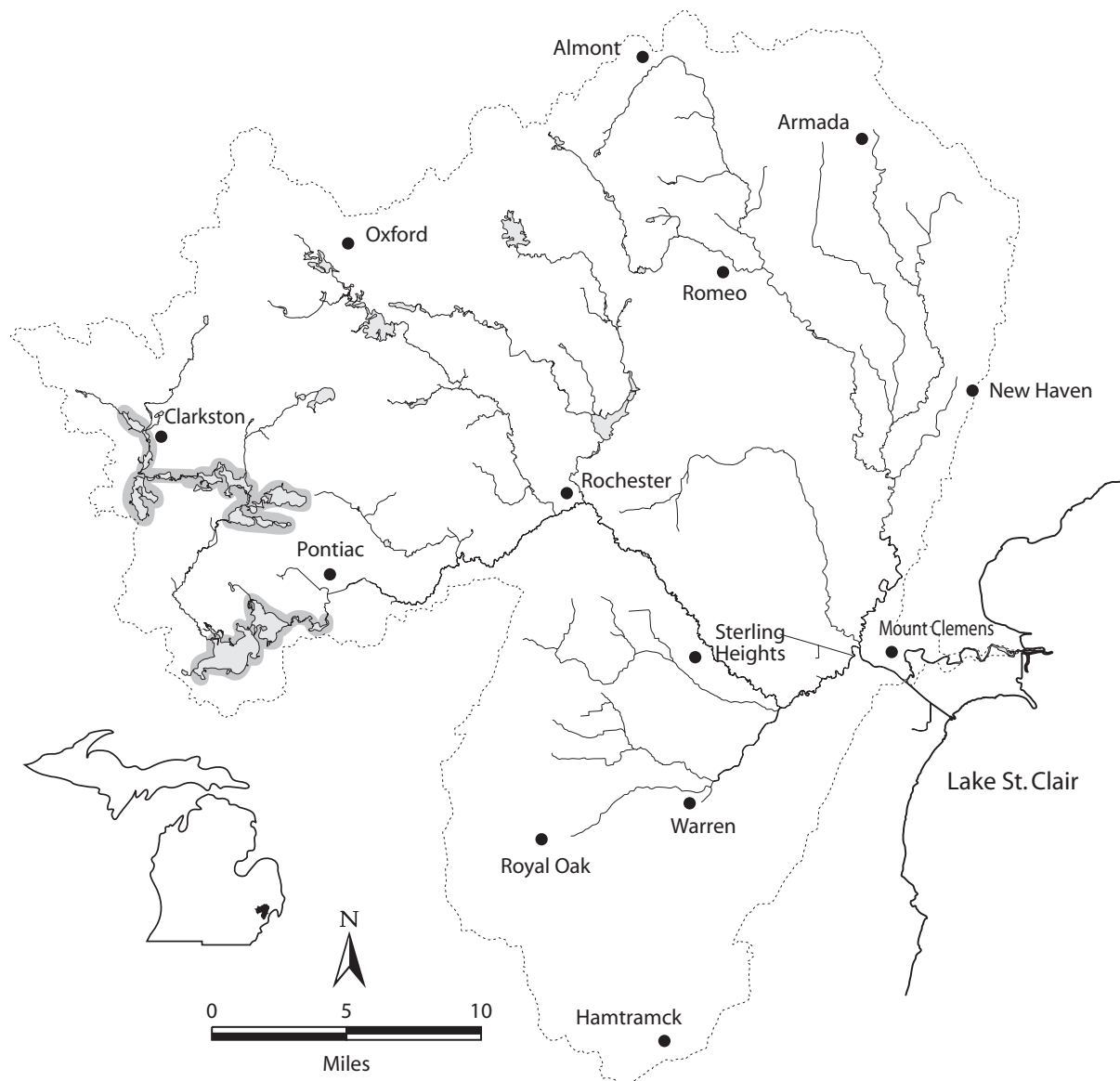


Warmouth *Lepomis gulosus*

Habitat:

- feeding - clear lakes and impoundments and very low-gradient streams
- abundant aquatic vegetation
- silt-free water
- mucky substrate often covered with organic debris

- spawning - nesting sites in loose silt, sand with silt, or rubble over silt near stumps, roots, or vegetation



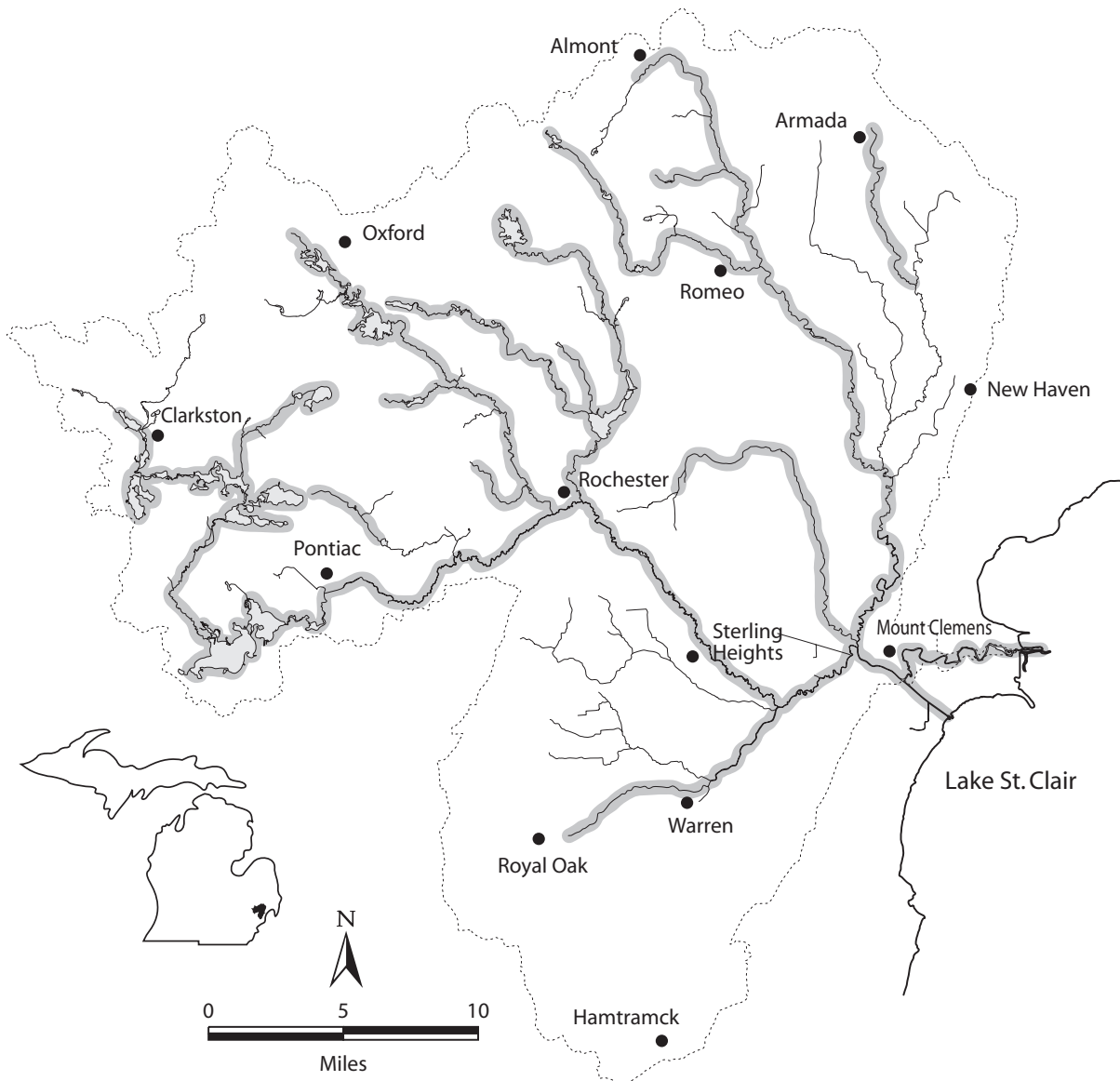
Bluegill *Lepomis macrochirus*

Habitat:

- feeding - non-flowing clear streams and rivers; also lakes and impoundments
- sand, gravel, or muck containing organic debris substrate
- scattered beds of aquatic vegetation
- cannot tolerate low oxygen or continuous high turbidity and siltation

spawning - nests in firm substrate of gravel, sand, or mud

winter refuge - deep water

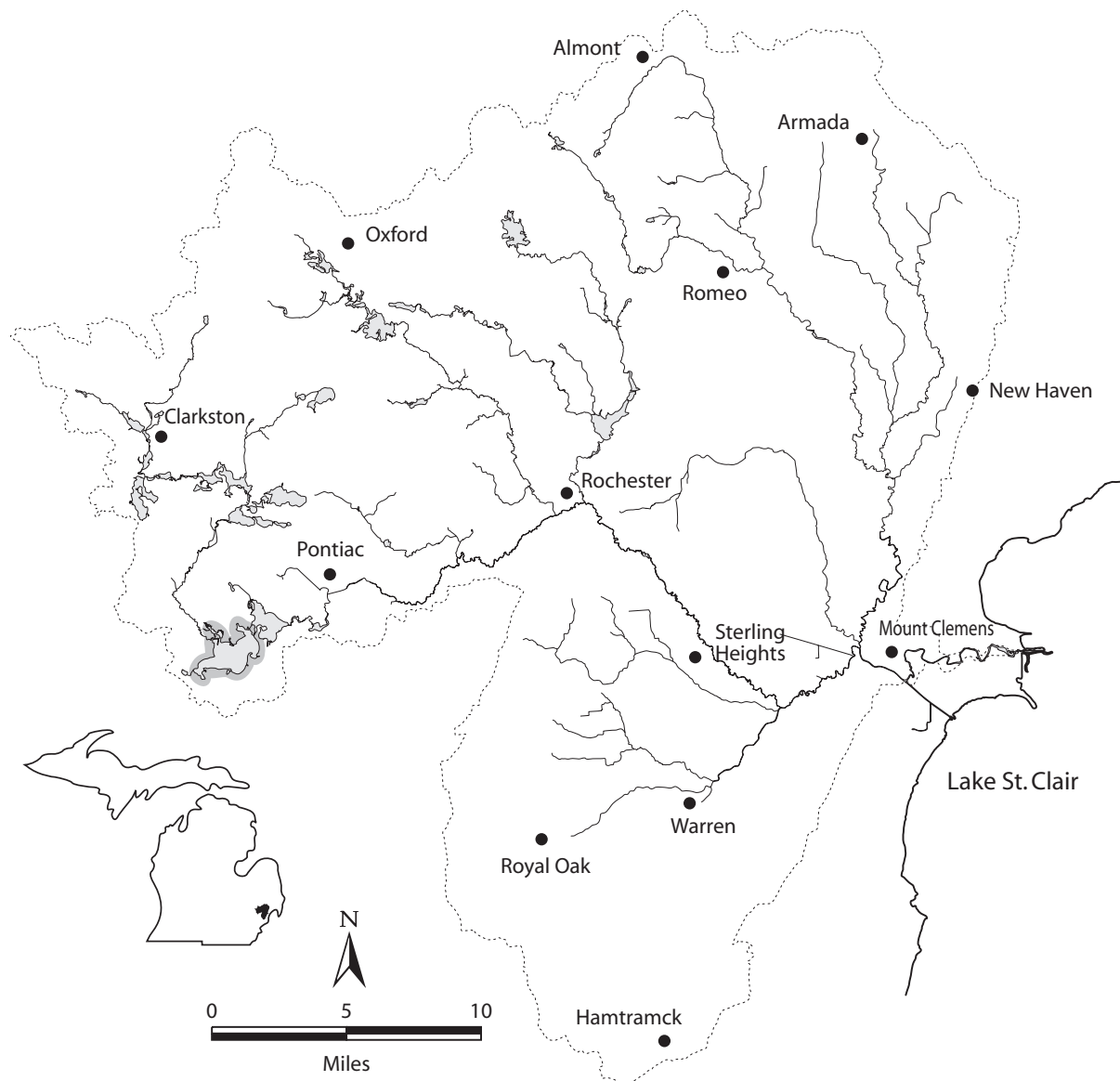


Redear sunfish *Lepomis microlophus*

Habitat:

- feeding - non-flowing clear waters of streams and lakes
- some aquatic vegetation

- spawning - nest in silt or gravel substrate

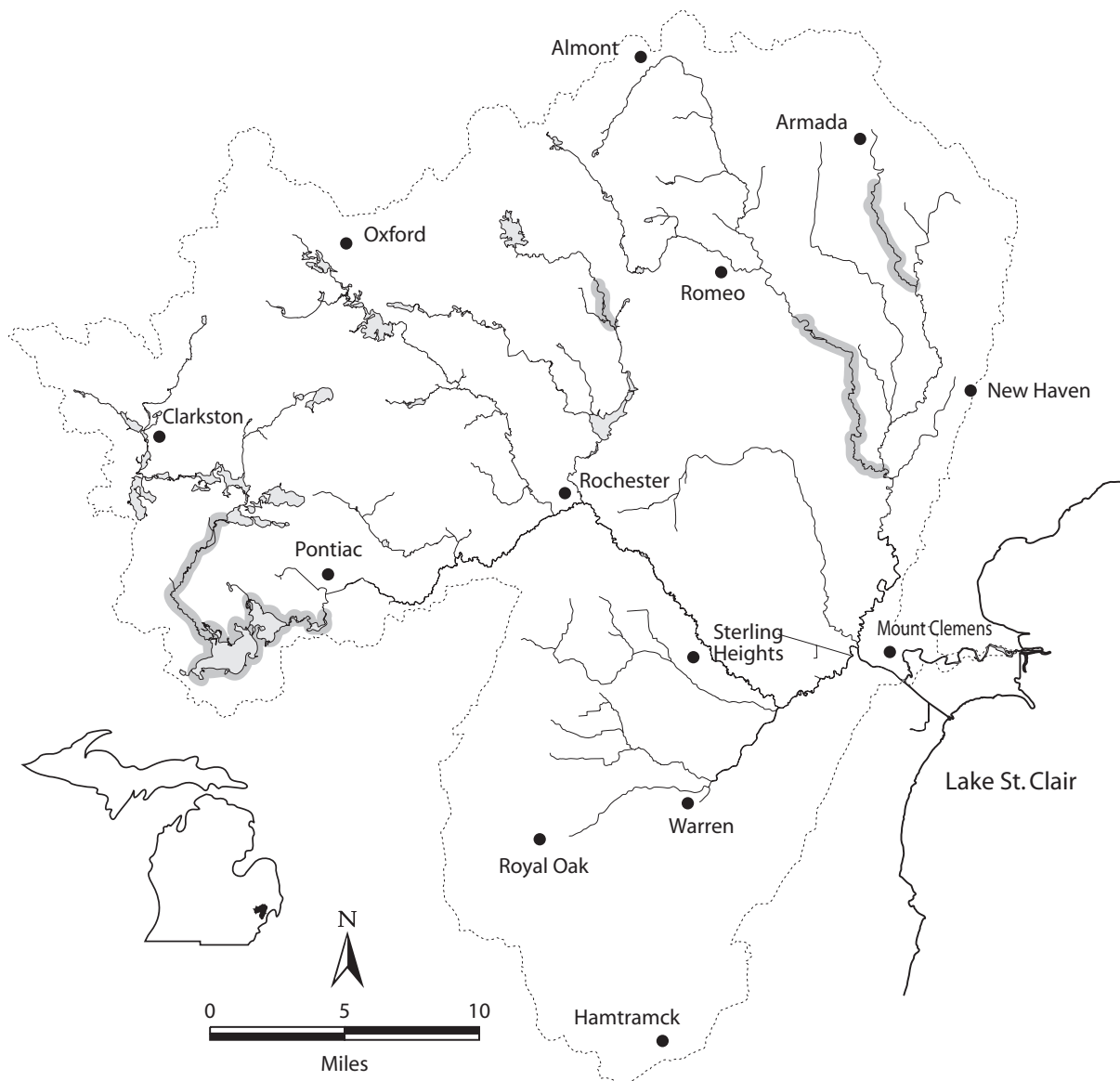


Northern longear sunfish *Lepomis peltastes*

Habitat:

- feeding - clear moderate-sized shallow streams with moderate vegetation
- rocky substrates
- little to no current

- spawning - nests in gravel, sand, or hard rock substrate



Smallmouth bass *Micropterus dolomieu*

Habitat:

- feeding
 - clear, cool, deep lakes and rivers
 - streams where 40% consists of riffles over clean gravel, boulder, or bedrock substrate
 - in pools with a current and >4 feet of depth
 - gradients between 4 and 25 feet per mile
- spawning
 - nest in sandy, gravel, or rocky substrate
 - gradients 7 to 25 feet per mile
 - streams 20 to 100 feet wide
- winter refuge
 - larger deeper waters with gradients between 3 to 7 feet per mile

