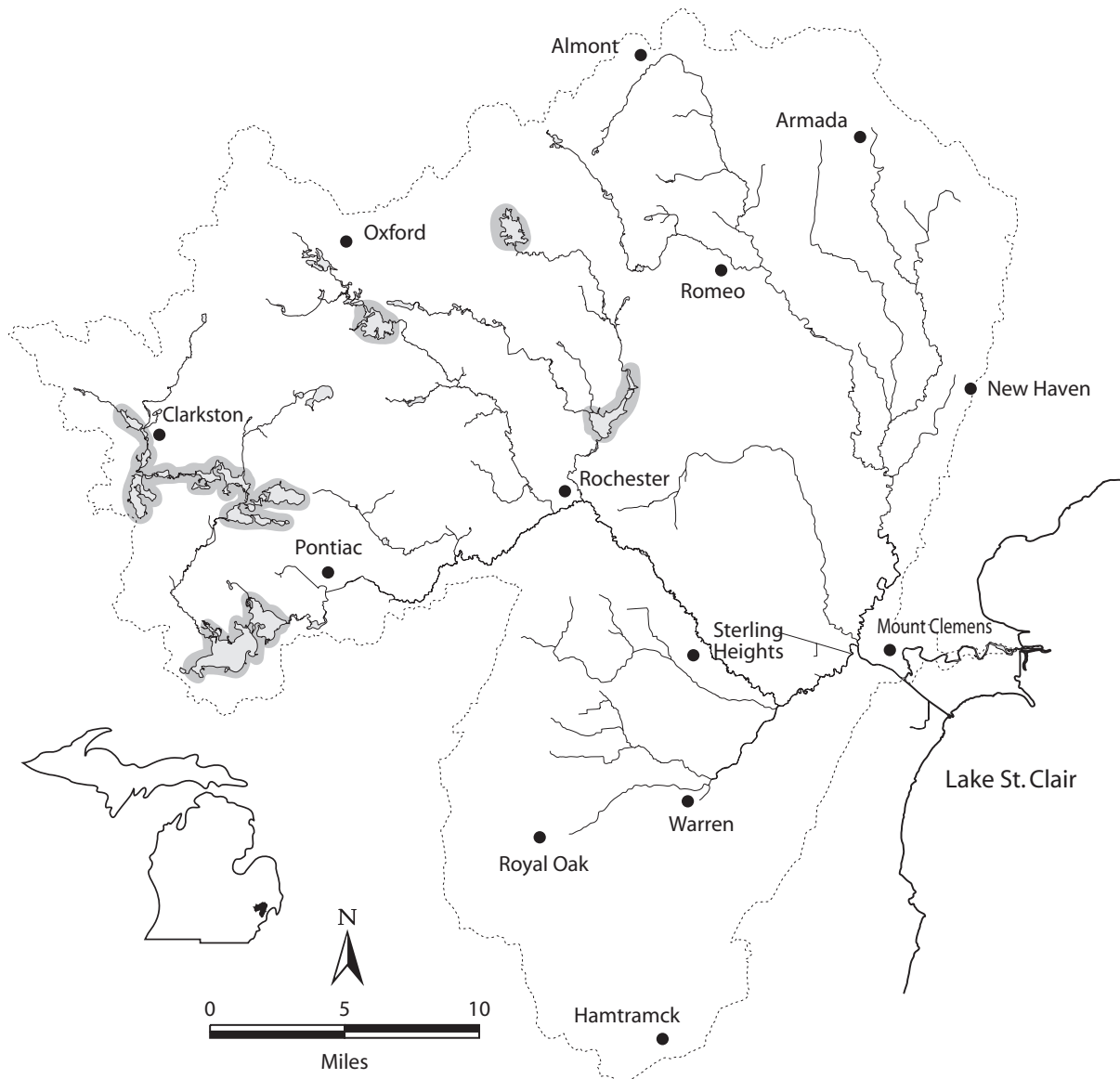


Sand shiner *Notropis stramineus*

Habitat:

- feeding - sand and gravel substrate
 - shallow pools in medium size streams, lakes, and impoundments
 - clear water and low gradient
 - rooted aquatic vegetation preferred
 - tolerant of some inorganic pollutants provided substrate is not covered
- spawning - clean gravel or sand substrate

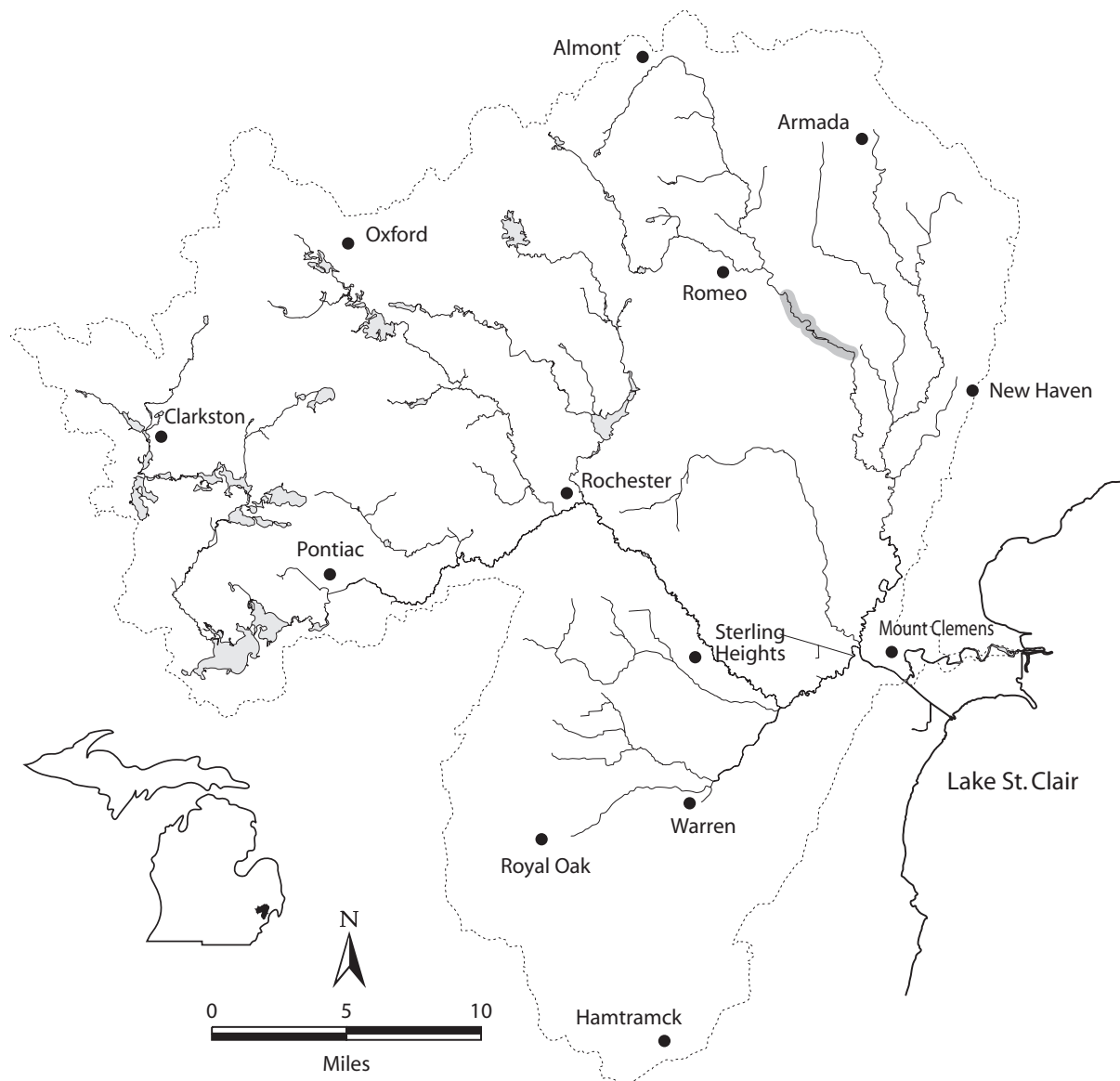


Mimic shiner *Notropis volucellus*

Habitat:

- feeding - pools and backwater of streams, moderately weedy lakes and impoundments
- quiet or still water
- clear shallow water

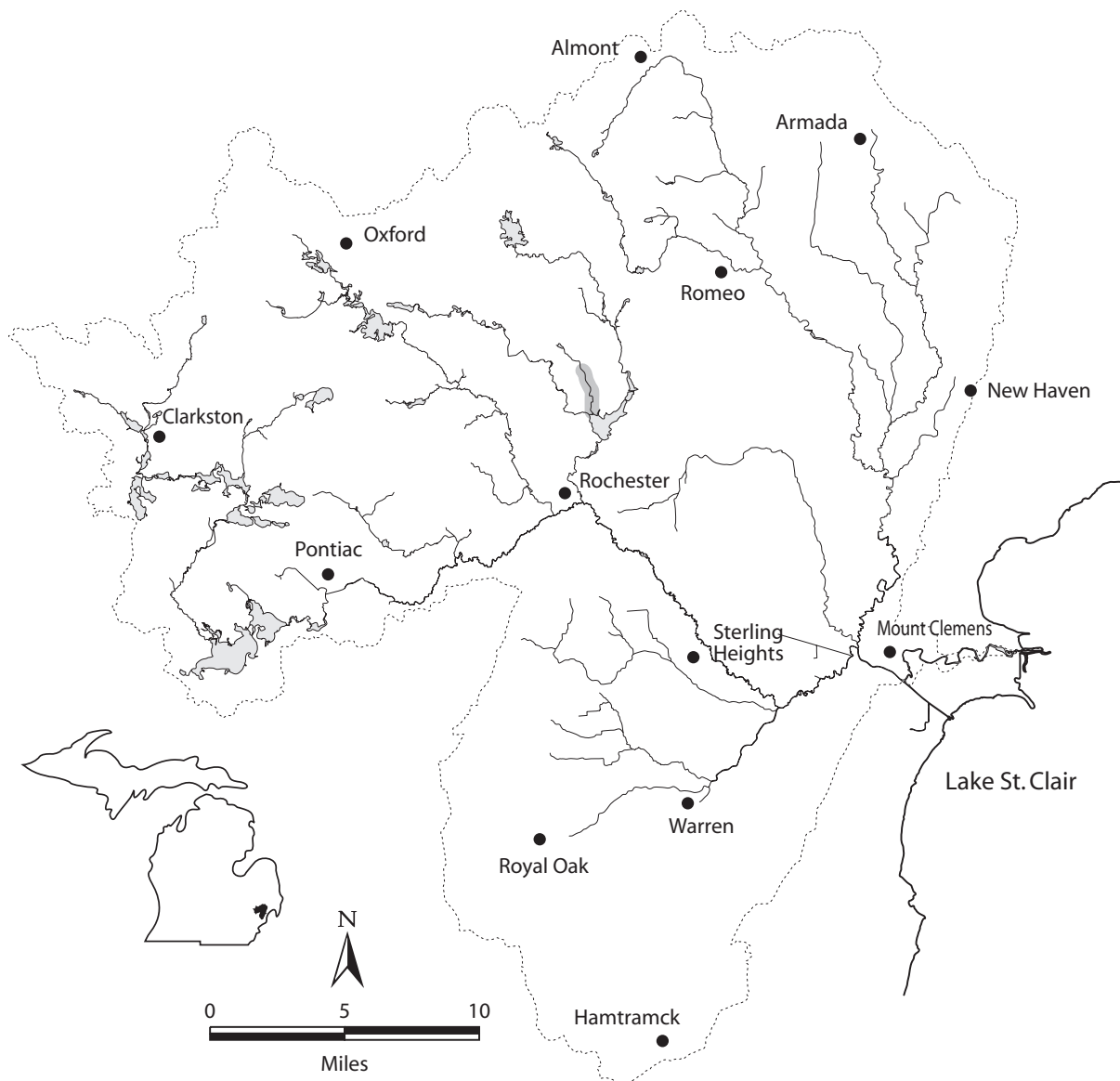
- spawning - aquatic vegetation necessary



Northern redbelly dace *Phoxinus eos*

Habitat:

- feeding - slow current
 - in boggy lakes and streams
 - detritus or silt substrate
 - clear to slightly turbid water
- spawning - filamentous algae needed for egg deposition

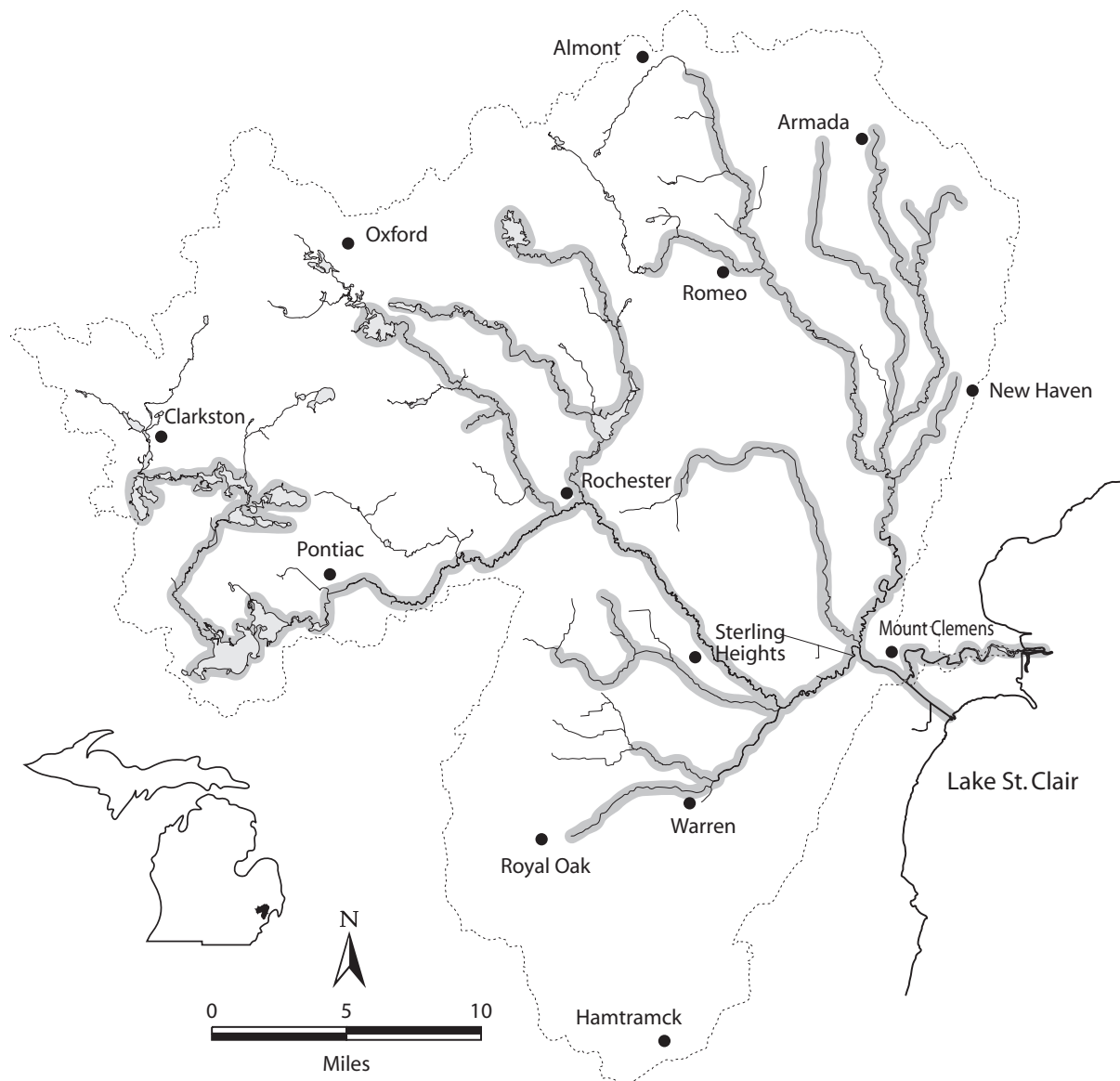


Bluntnose minnow *Pimephales notatus*

Habitat:

- feeding - quiet pools and backwaters of medium to large streams, lakes, and impoundments
- clear warm water
- some aquatic vegetation
- firm substrates
- tolerates all gradients, turbidity, organic and inorganic pollutants

- spawning - eggs deposited on the underside of flat stones or objects
- nests in sand or gravel substrate

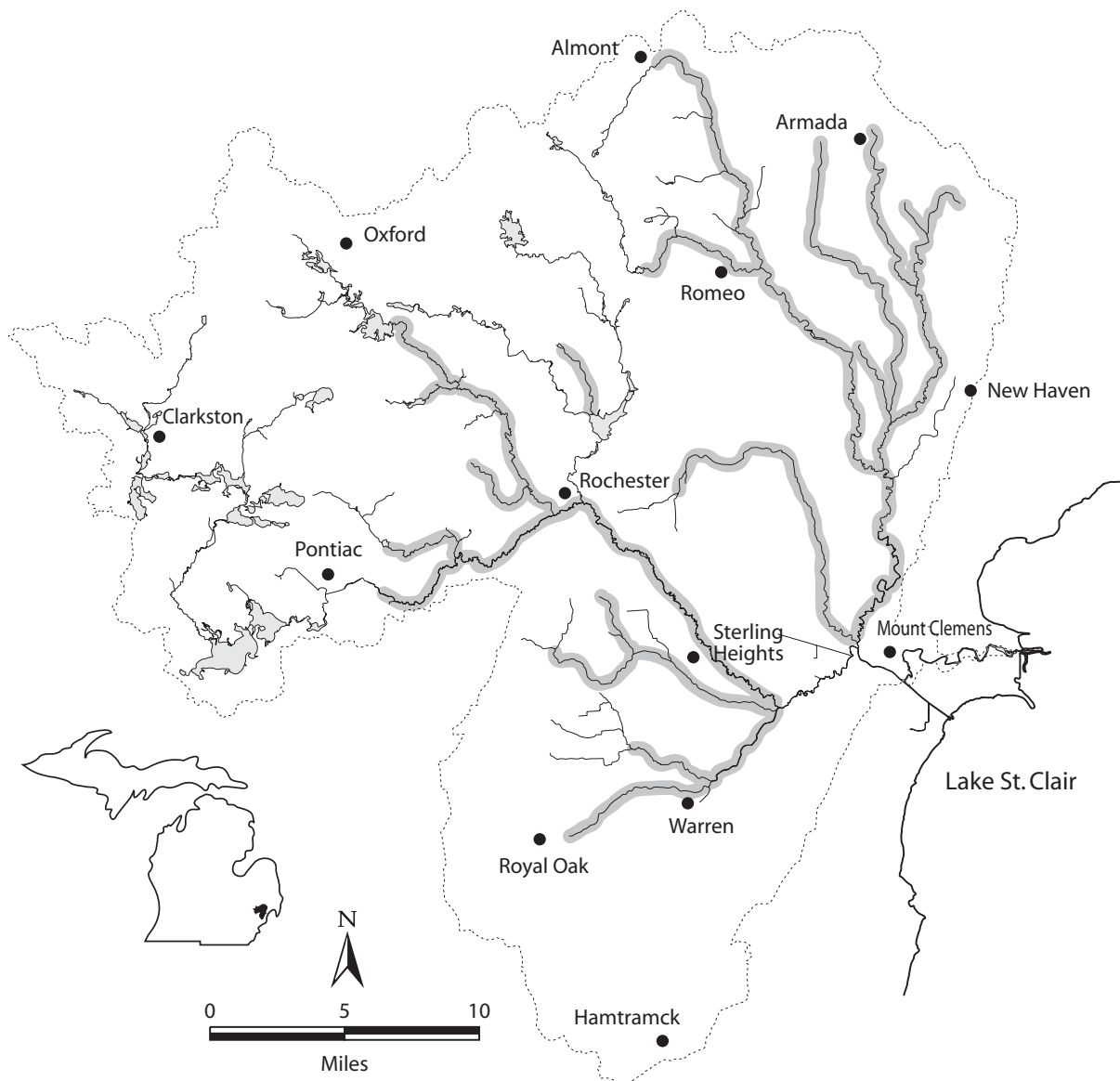


Fathead minnow *Pimephales promelas*

Habitat:

- feeding - pools of small streams, lakes, and impoundments
- tolerant of turbidity, high temperatures, and low oxygen

- spawning - on underside of objects in water 2 to 3 feet deep
- prefer sand, marl, or gravel substrate



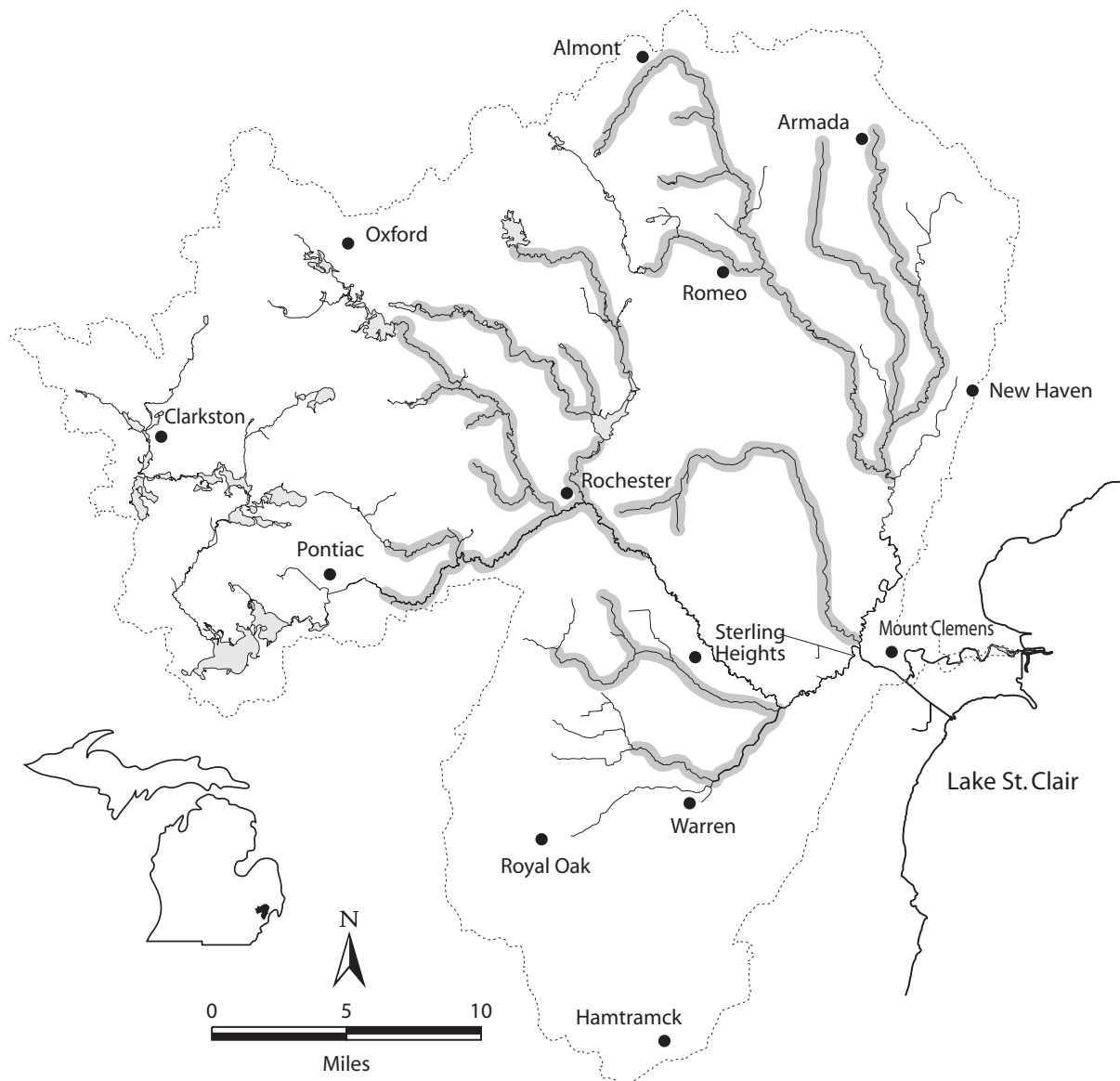
Western blacknose dace *Rhinichthys obtusus*

Habitat:

- feeding - moderate to high gradient streams
- sand and gravel substrate
- clear cool water in pools with deep holes and undercut banks
- does not tolerate turbidity and silt well

- spawning - riffles with gravel substrate and fast current

- winter refuge - larger waters



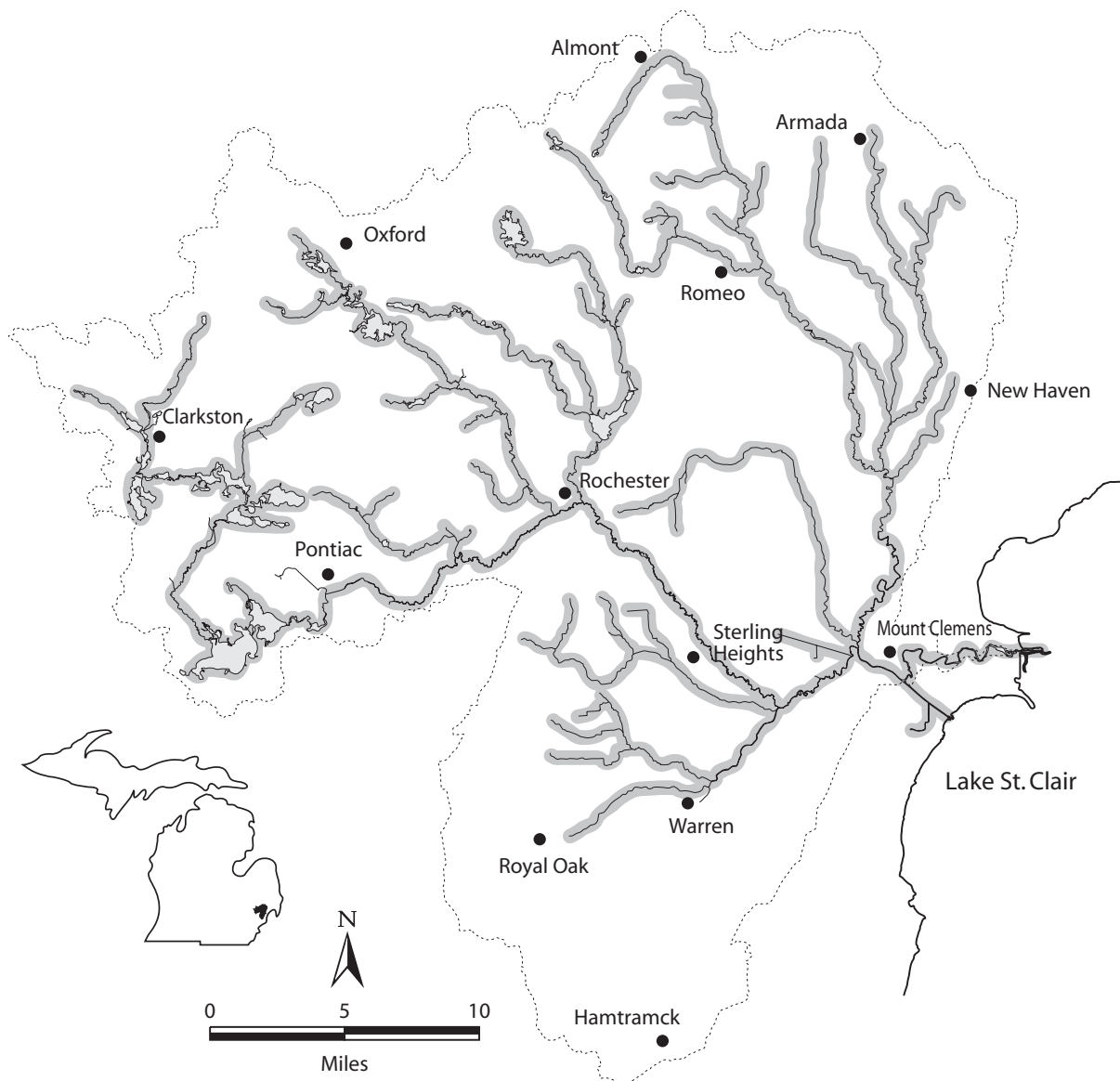
Creek chub *Semotilus atromaculatus*

Habitat:

- feeding - streams, rivers, or shore waters of lakes and impoundments
- can tolerate intermittent flows
- tolerates moderate turbidity

- spawning - gravel nests
- low current

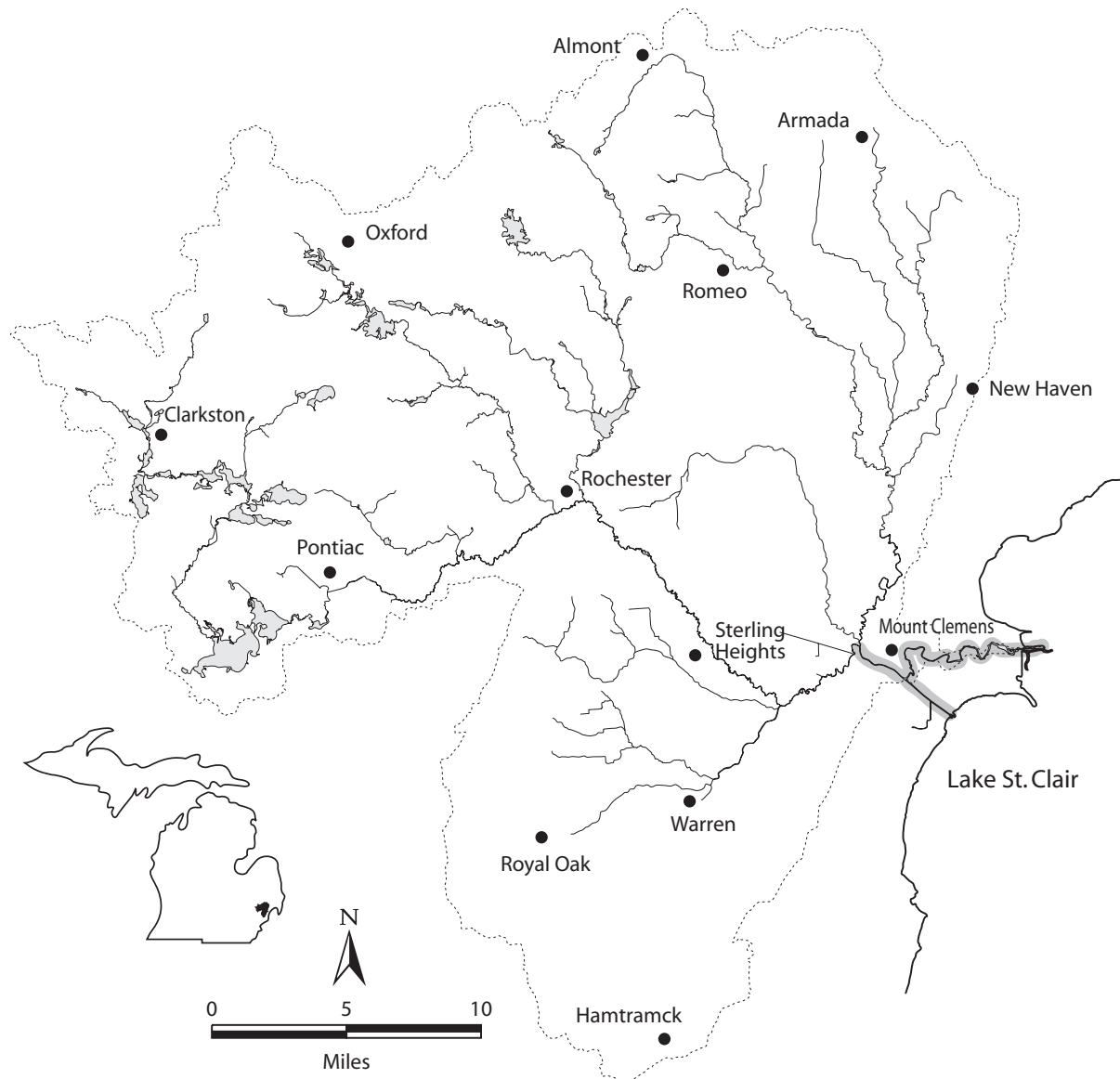
- winter refuge - deeper pools and runs



Quillback *Carpoides cyprinus*

Habitat:

- feeding - clear to turbid water
 - Lake St. Clair
 - sand, sandy gravel, sandy silt, or clay-silt substrate
 - medium- to low-gradient rivers and streams; also lakes and sloughs
-
- spawning - streams or overflow areas of bends of rivers or bays of lakes
 - scatter eggs over sand or mud substrate

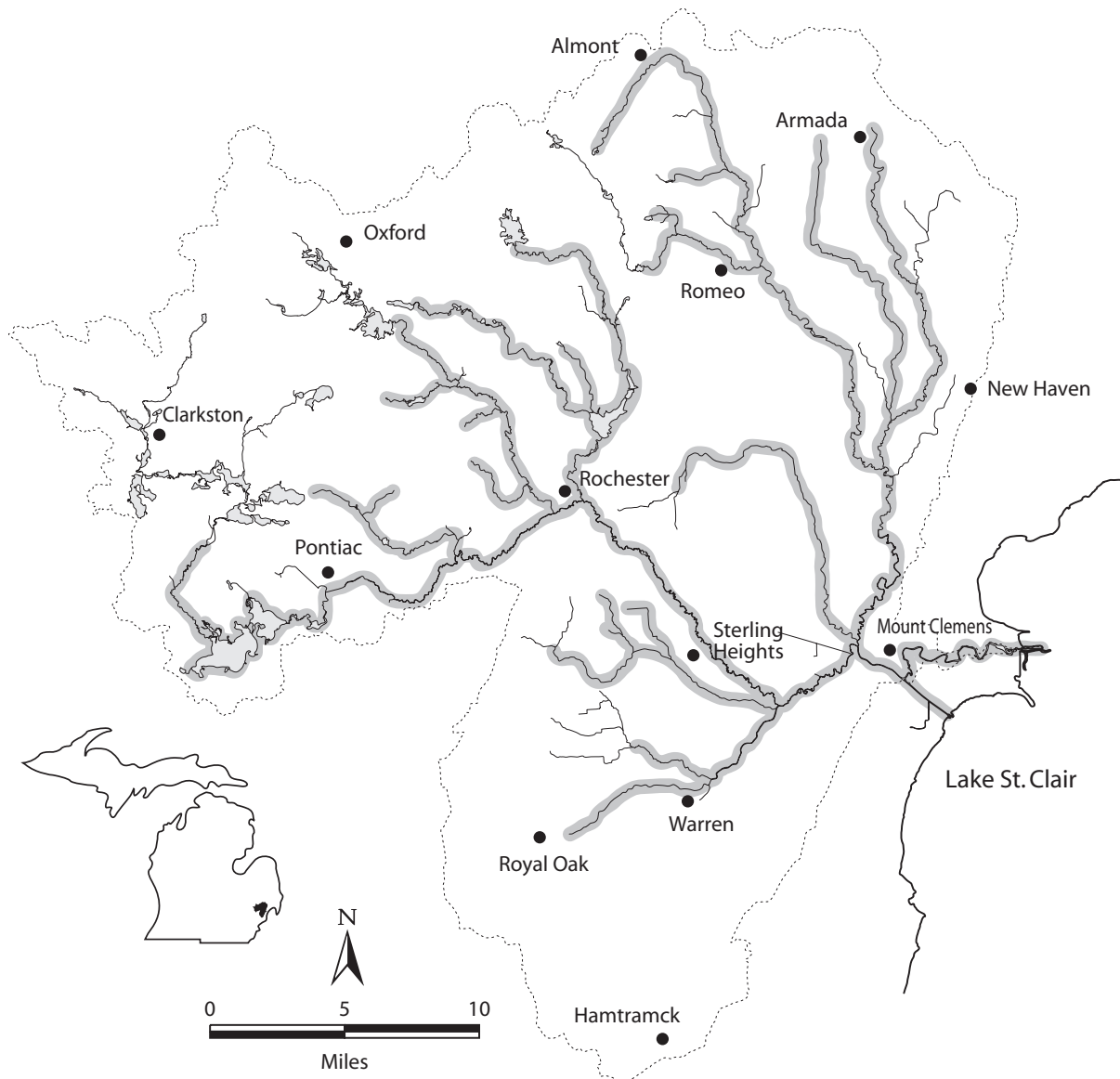


White sucker *Catostomus commersonii*

Habitat:

- feeding - streams, rivers, lakes, and impoundments
- can inhabit highly turbid and polluted waters

- spawning - quiet gravelly shallow areas of streams



Lake chubsucker *Erimyzon sucetta*

Habitat:

- feeding - larger clear streams, rivers, lakes, and impoundments
- cannot tolerate turbid water
- low gradient
- prefers dense vegetation over substrate of sand or silt mixed with organic debris

- spawning - small clear streams with moderate to high gradient
- sand or gravel substrate; no clayey silt

