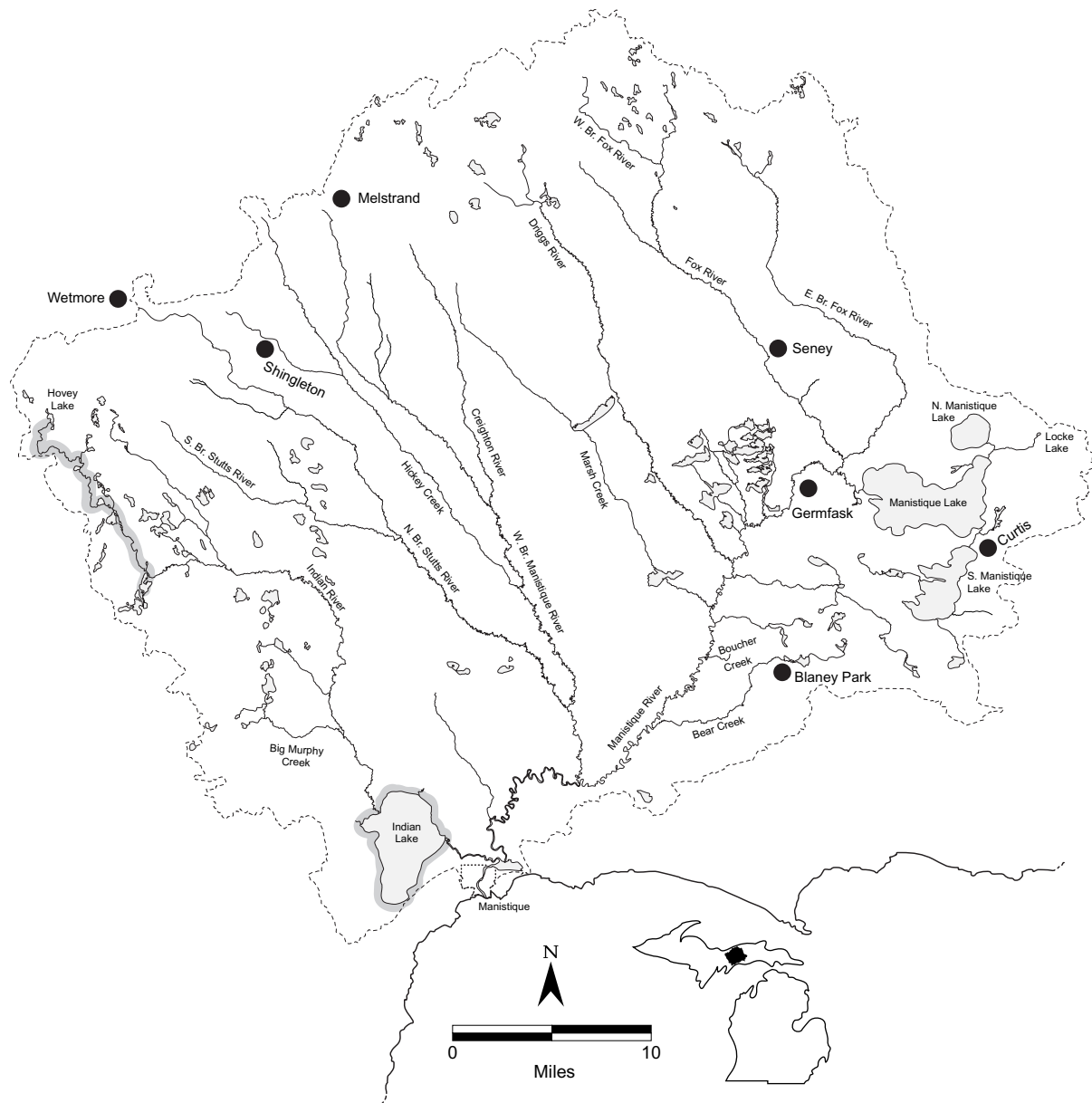


Blackchin shiner (*Notropis heterodon*)

Habitat:

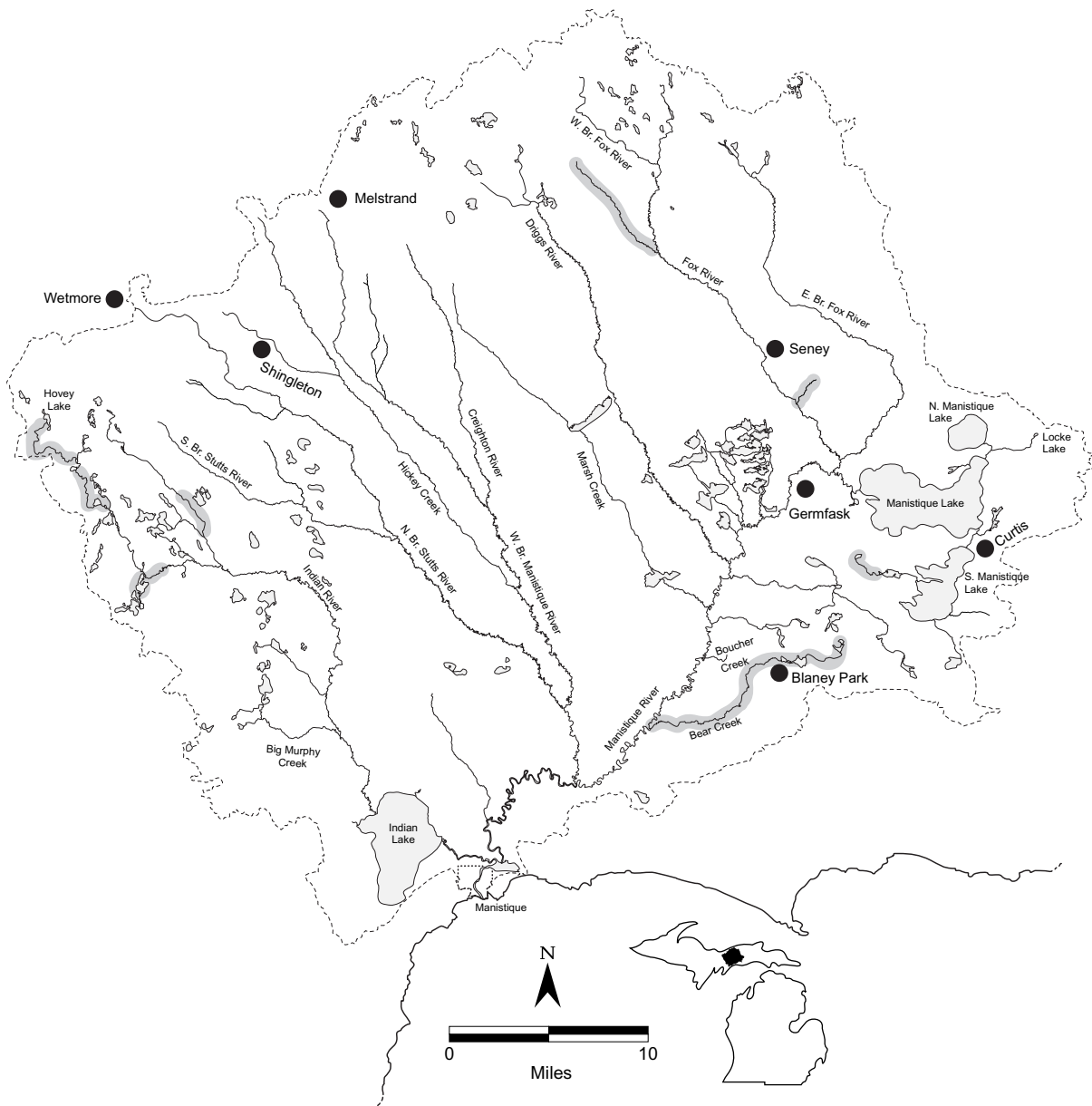
- feeding - lakes, impoundments, and quiet pools in streams and rivers
- clear water
- clean sand, gravel, or organic debris substrate
- dense beds of submerged aquatic vegetation
- cannot tolerate turbidity, silt, or loss of aquatic vegetation



Blacknose shiner (*Notropis heterolepis*)

Habitat:

- feeding - clear lakes, impoundments, and pools of small, clear, low-gradient streams
 - aquatic vegetation
 - clean sand, gravel, marl, muck, peat, or organic debris substrate
 - cannot tolerate much turbidity, much siltation, or loss of aquatic vegetation
- spawning - sandy substrate

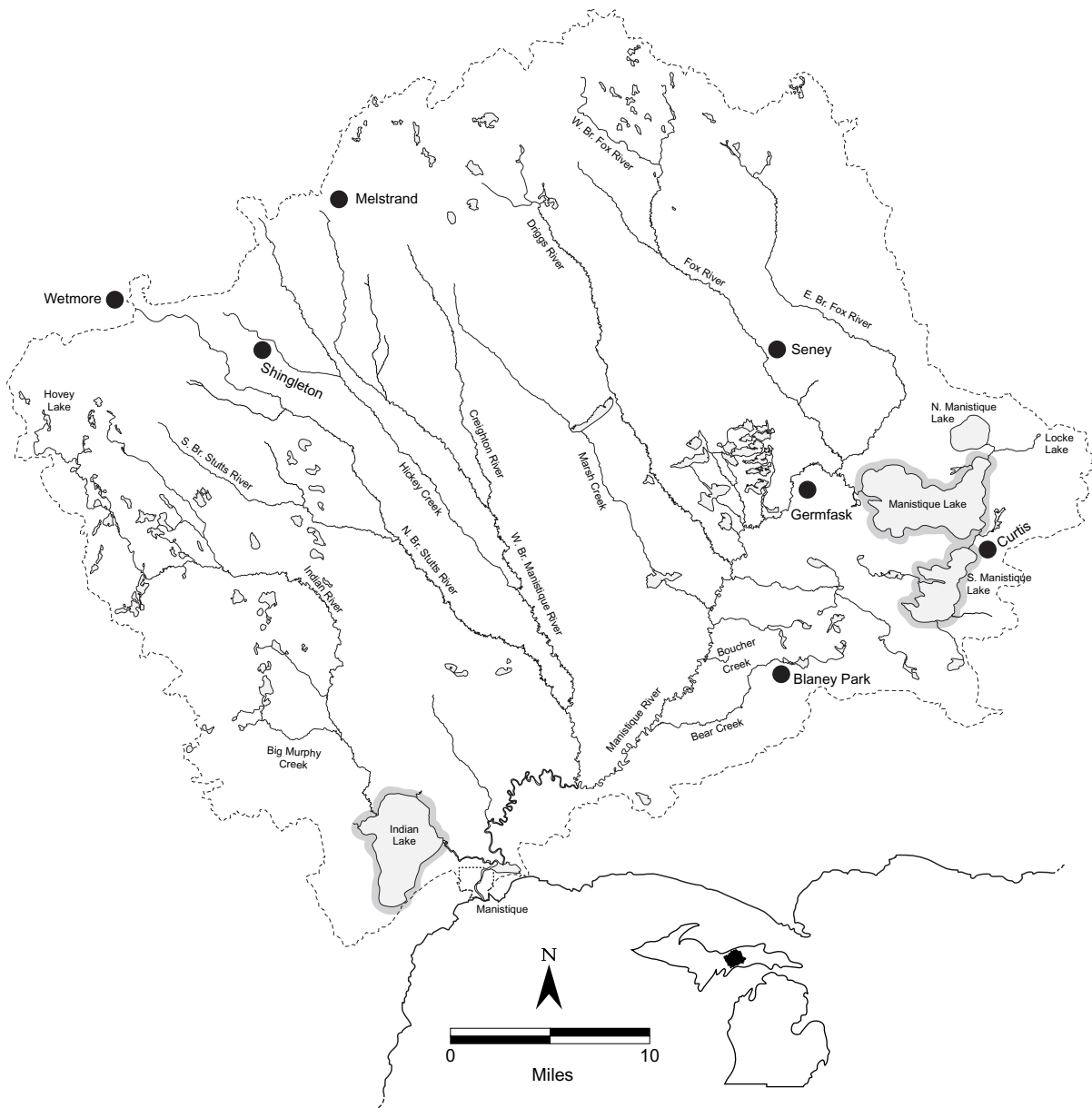


Spottail shiner (*Notropis hudsonius*)

Habitat:

- feeding
 - large rivers, lakes, and impoundments
 - firm sand and gravel substrate
 - low current
 - sparse to moderate vegetation
 - avoids turbidity

- spawning
 - over sandy shoals or gravelly riffles
 - near the mouths of small streams

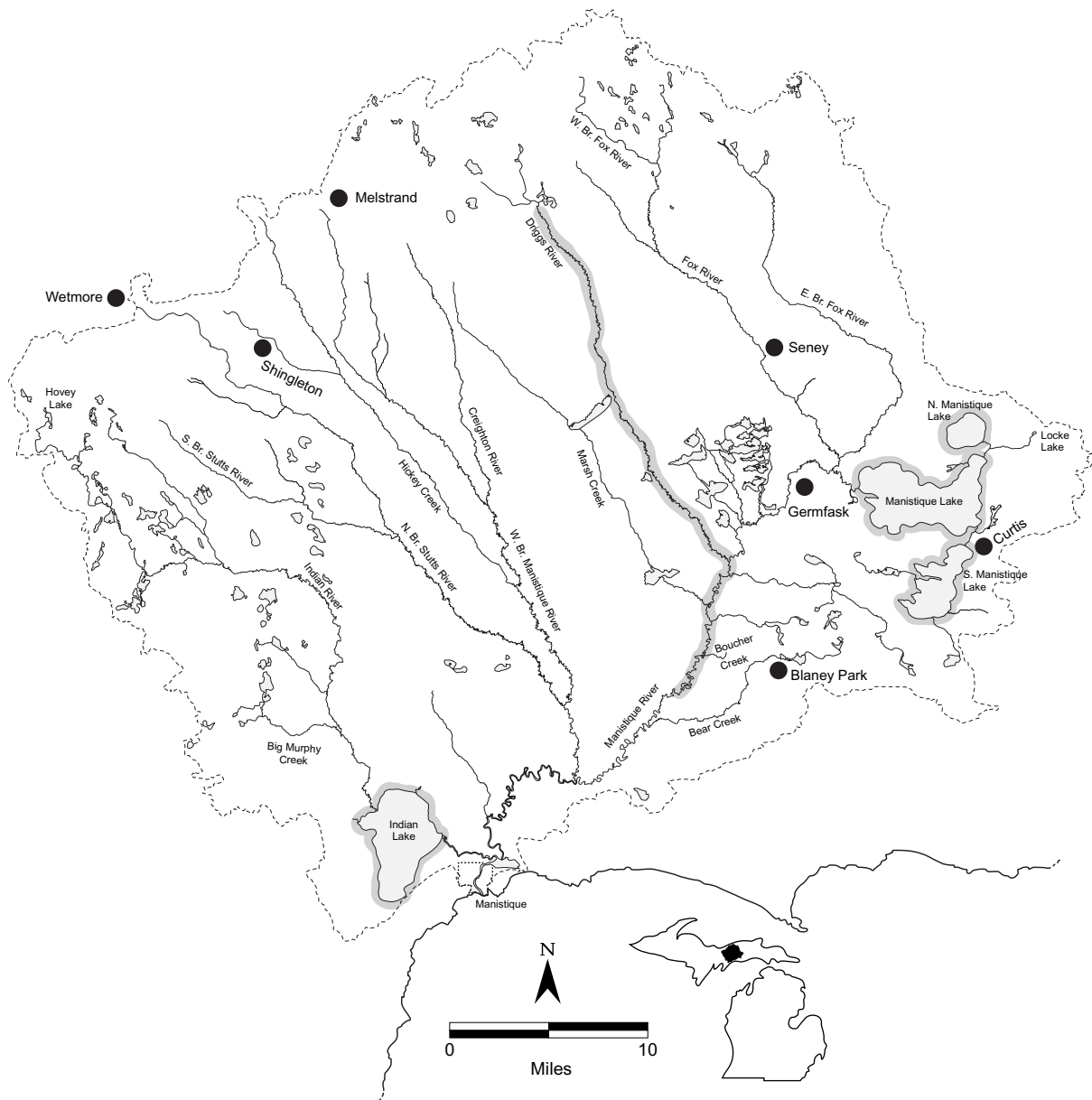


Sand shiner (*Notropis stramineus*)

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

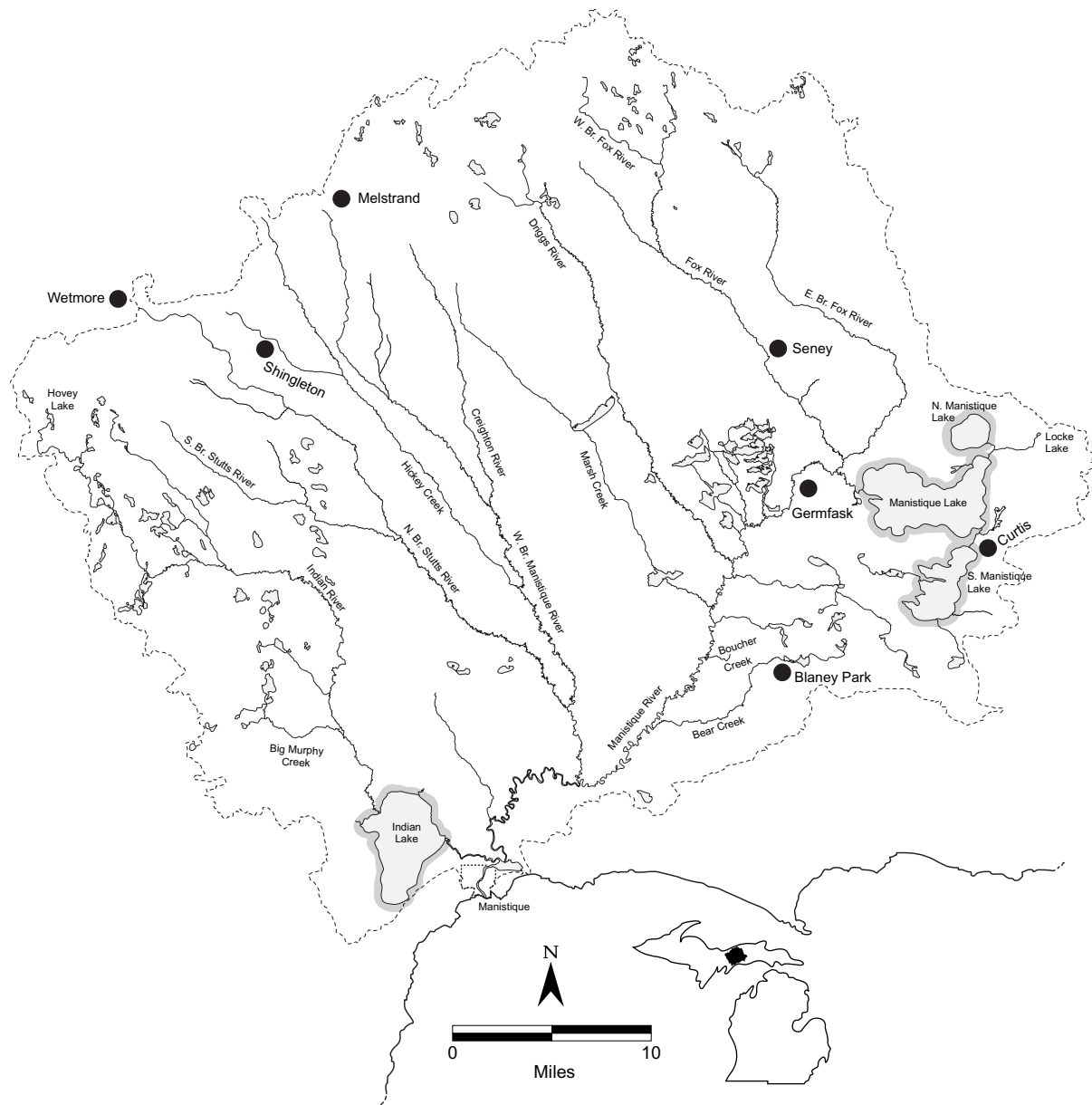


Mimic shiner (*Notropis volucellus*)

Habitat:

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

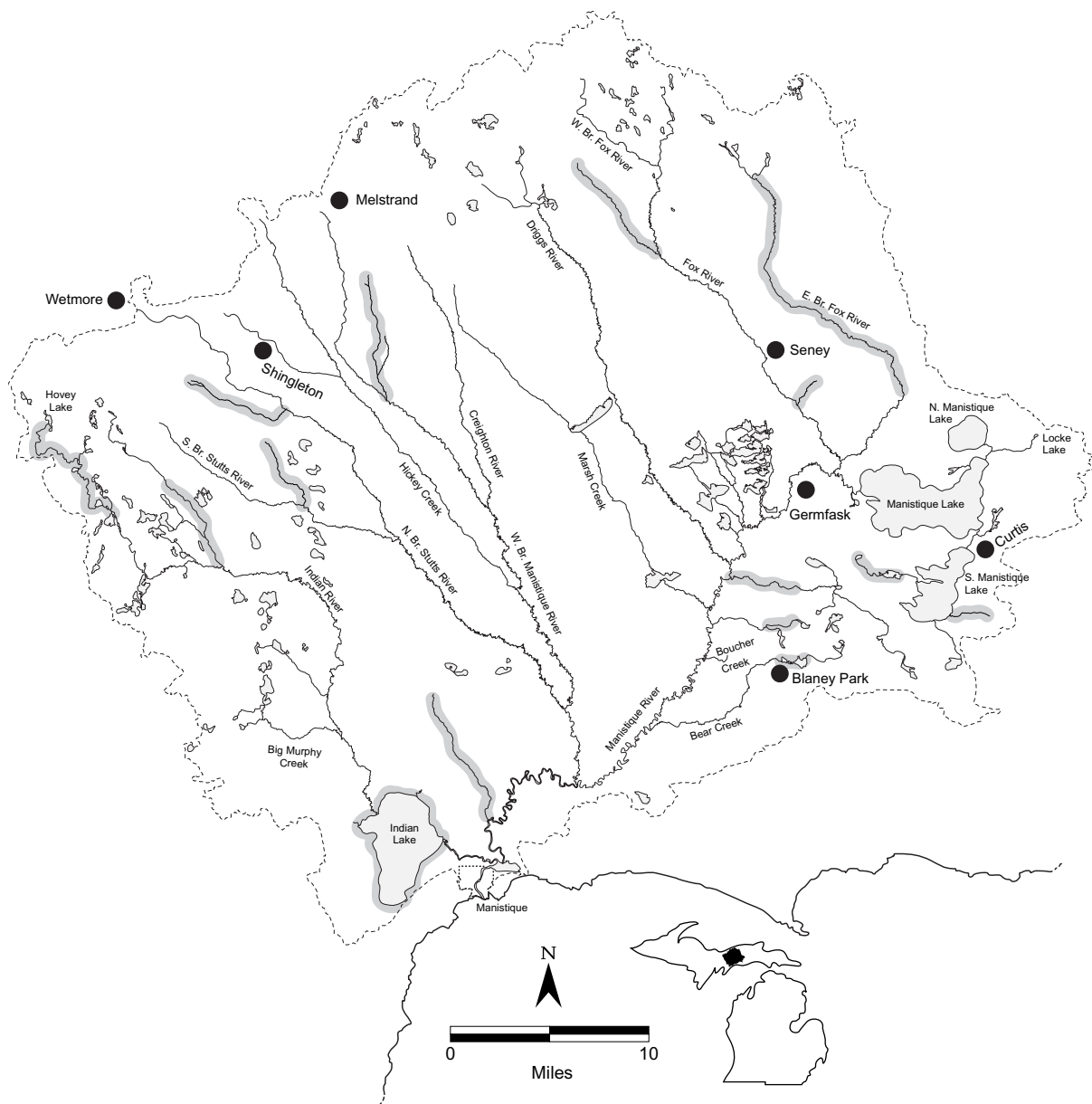
- spawning - aquatic vegetation necessary



Northern redbelly dace (*Phoxinus eos*)

Habitat:

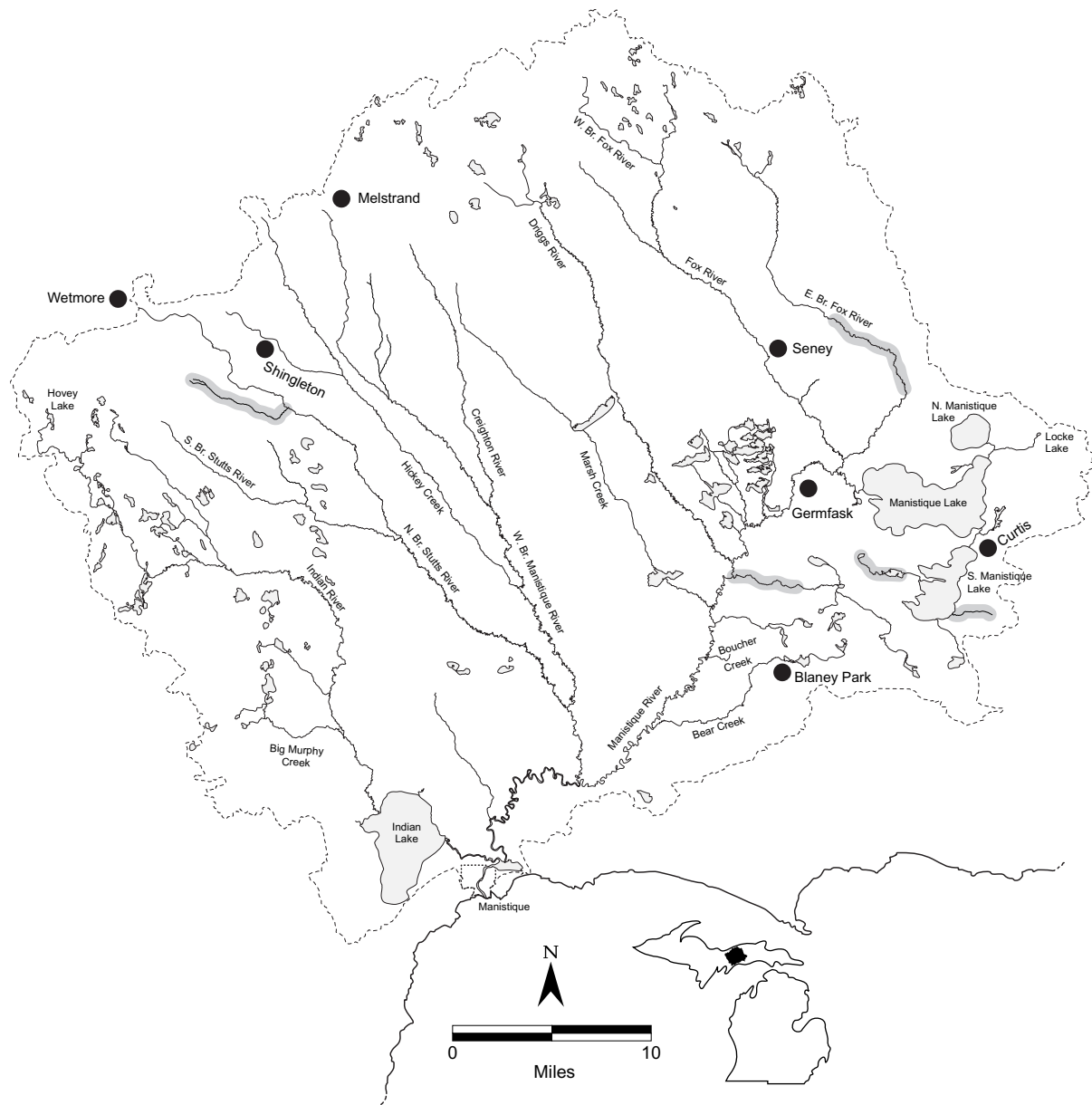
- feeding - slow current
 - in boggy lakes and streams
 - detritus or silt substrate
 - clear to slightly turbid water
- spawning - filamentous algae needed for egg deposition



Finescale dace (*Phoxinus neogaeus*)

Habitat:

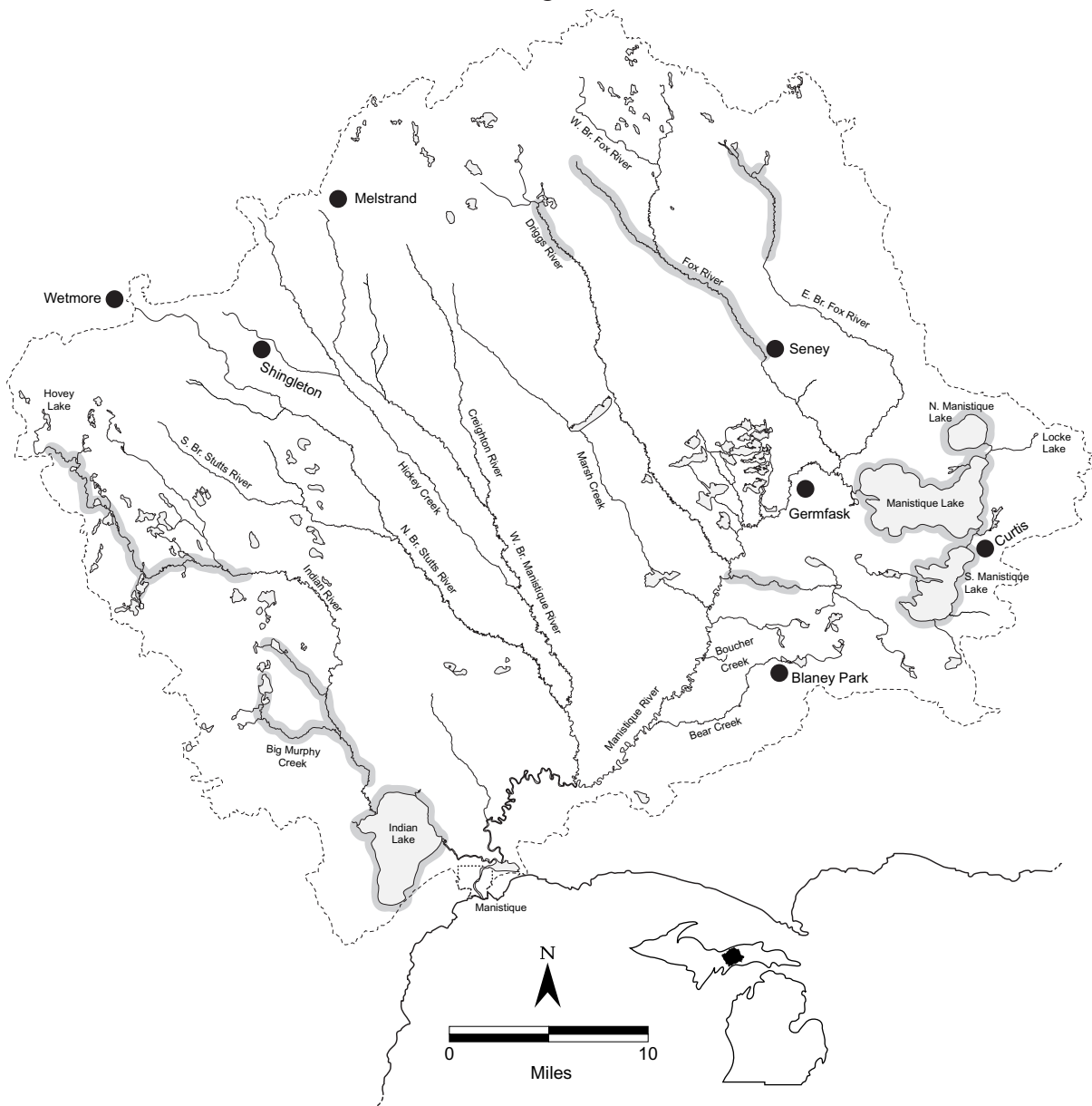
- feeding - cool bog lakes and streams
- neutral to slightly acidic waters
- various substrates



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

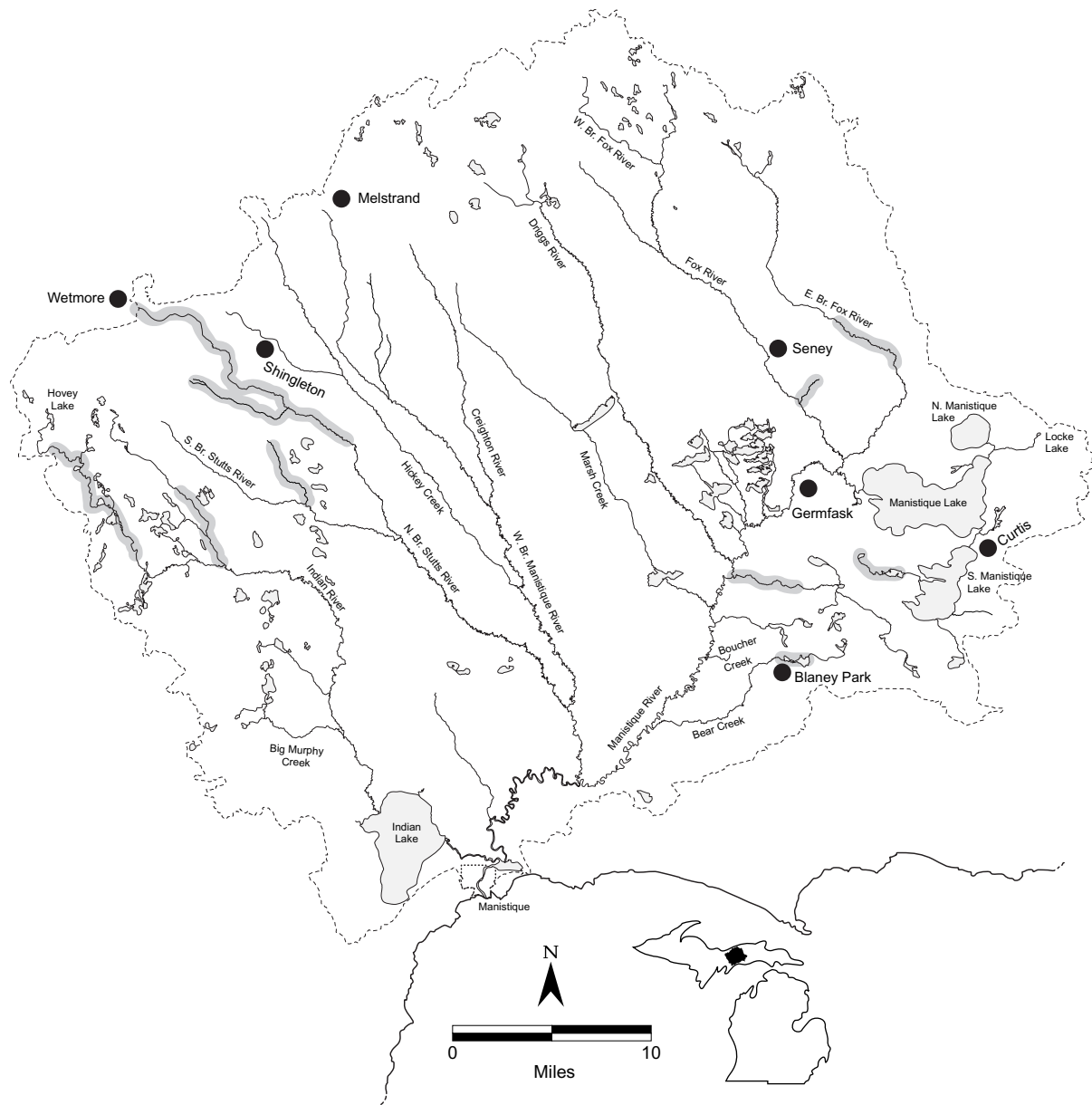


Fathead minnow (*Pimephales promelas*)

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



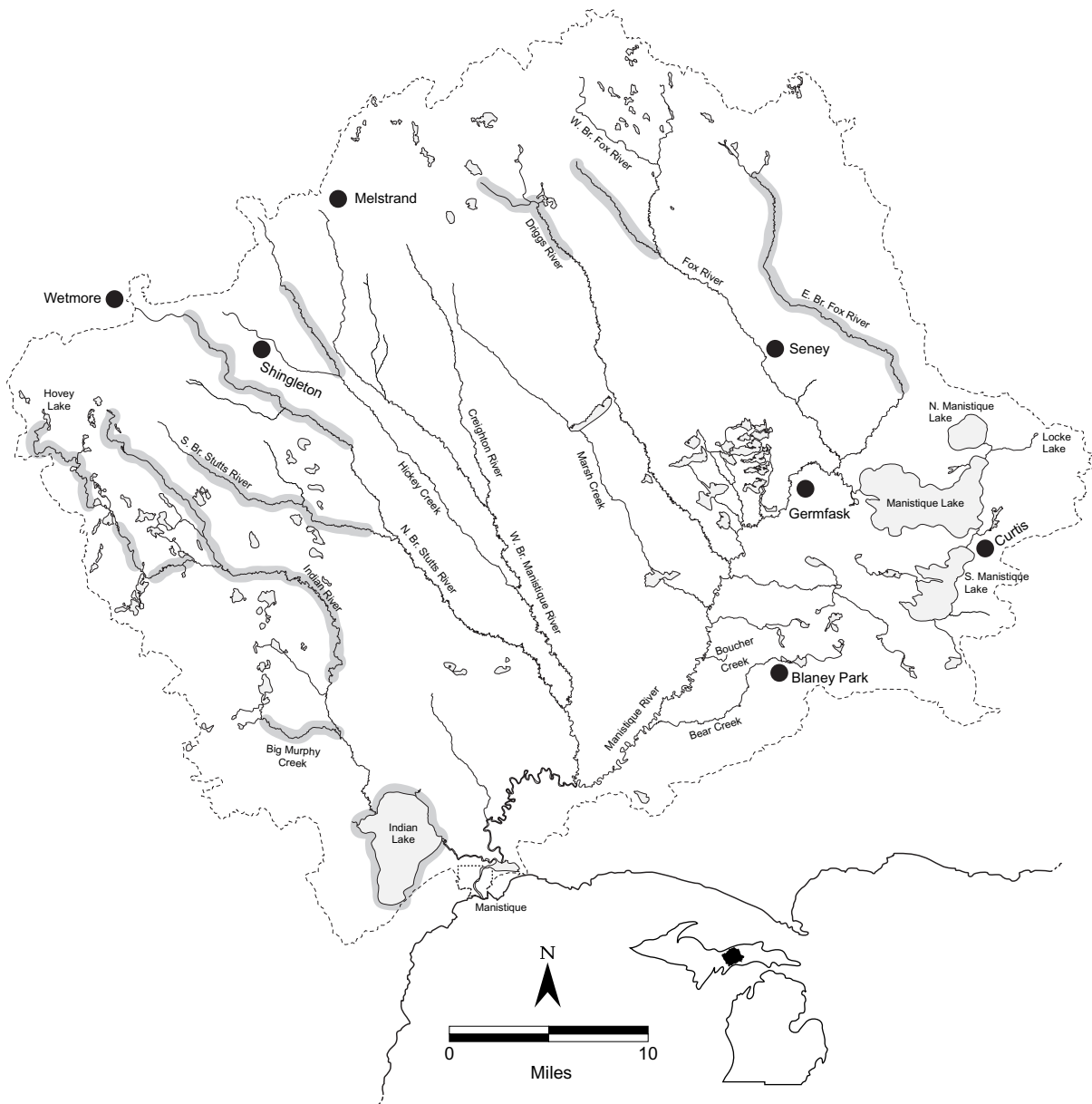
Western blacknose dace (*Rhinichthys obtusus*)

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

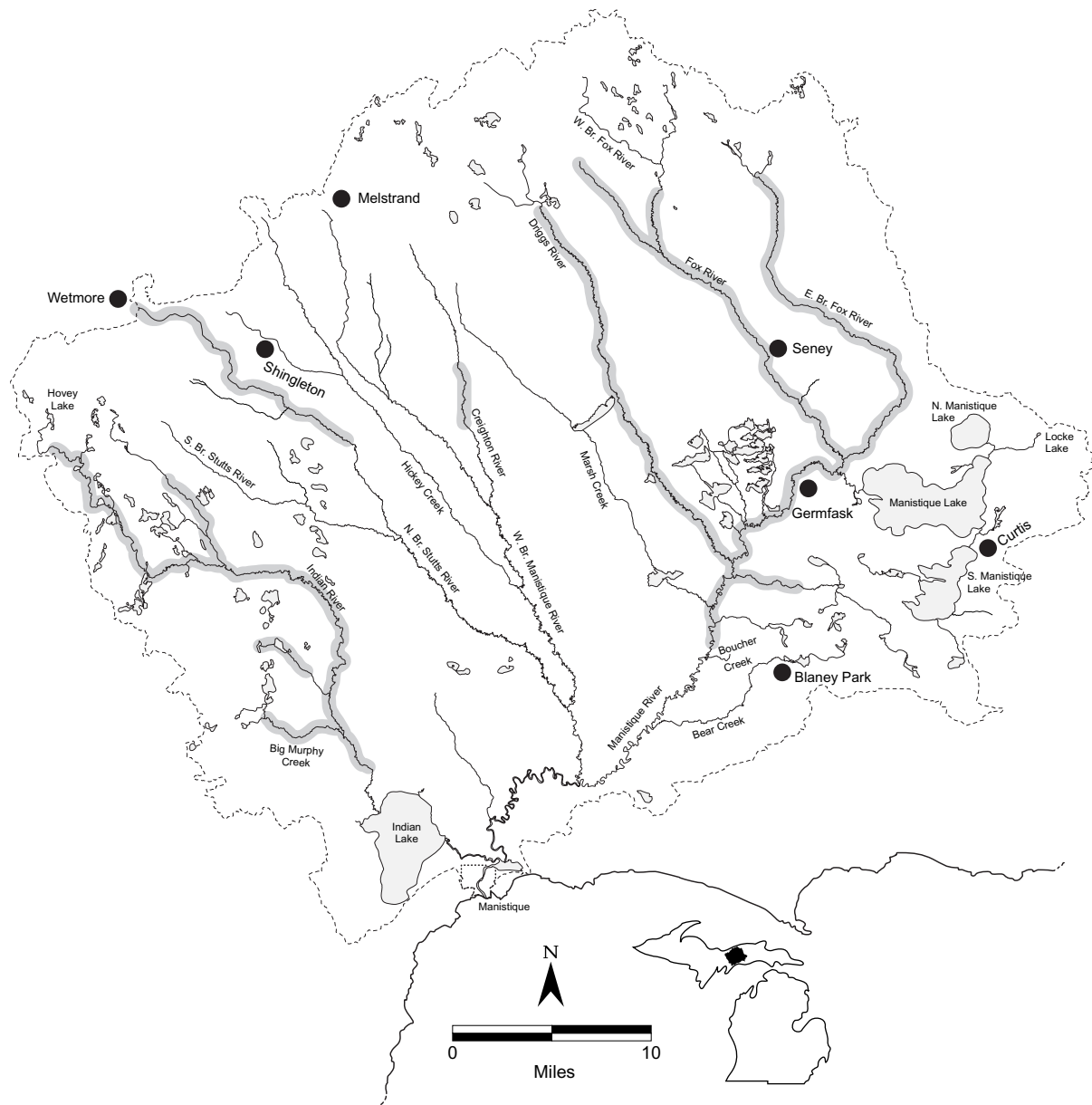
winter refuge - larger waters



Longnose dace (*Rhinichthys cataractae*)

Habitat:

- feeding - lakes and streams
- high gradient
- gravel or boulder substrate



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

