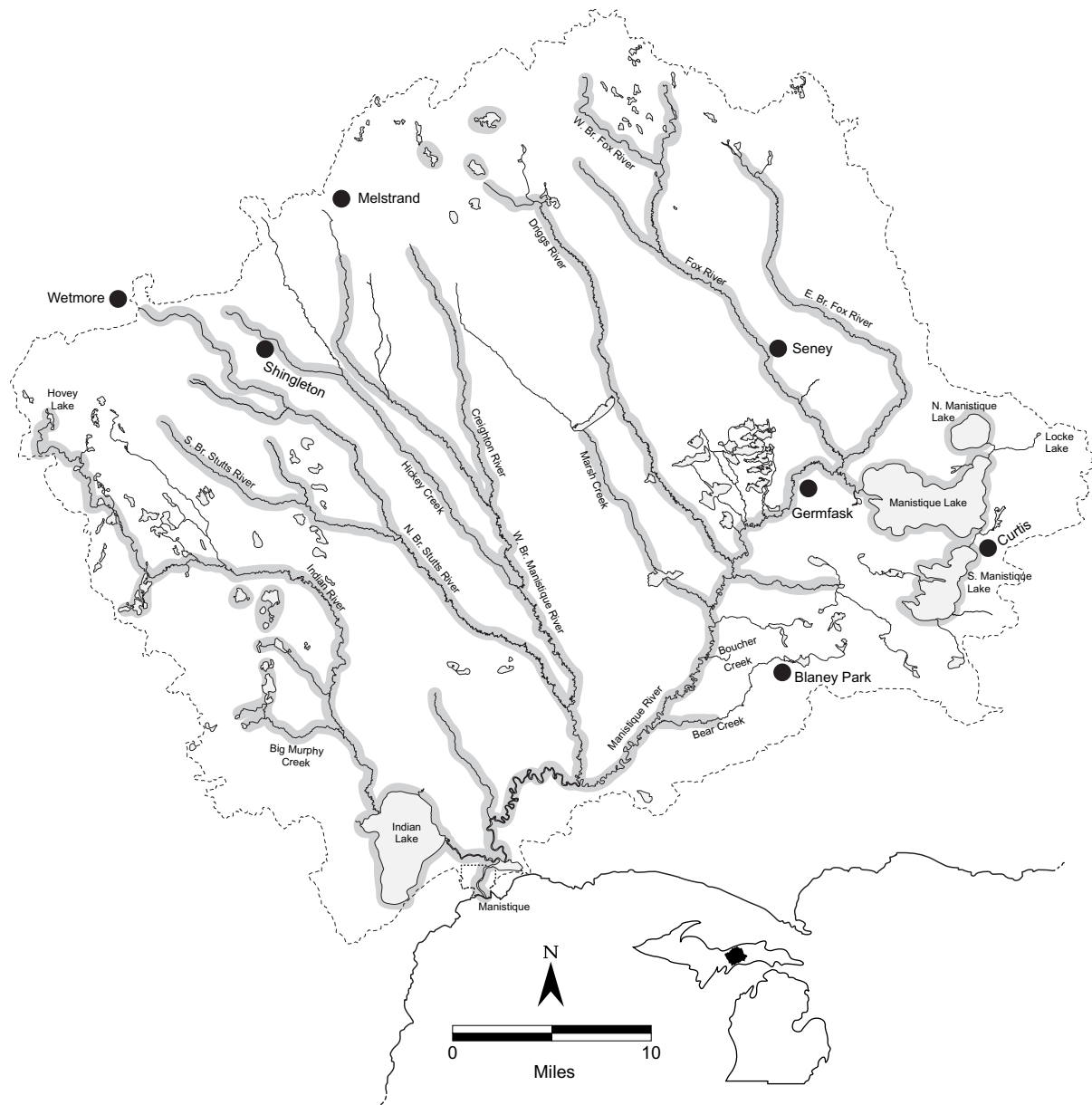


White sucker (*Catostomus commersonii*)

Habitat:

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

- spawning - quiet gravelly shallow areas of streams

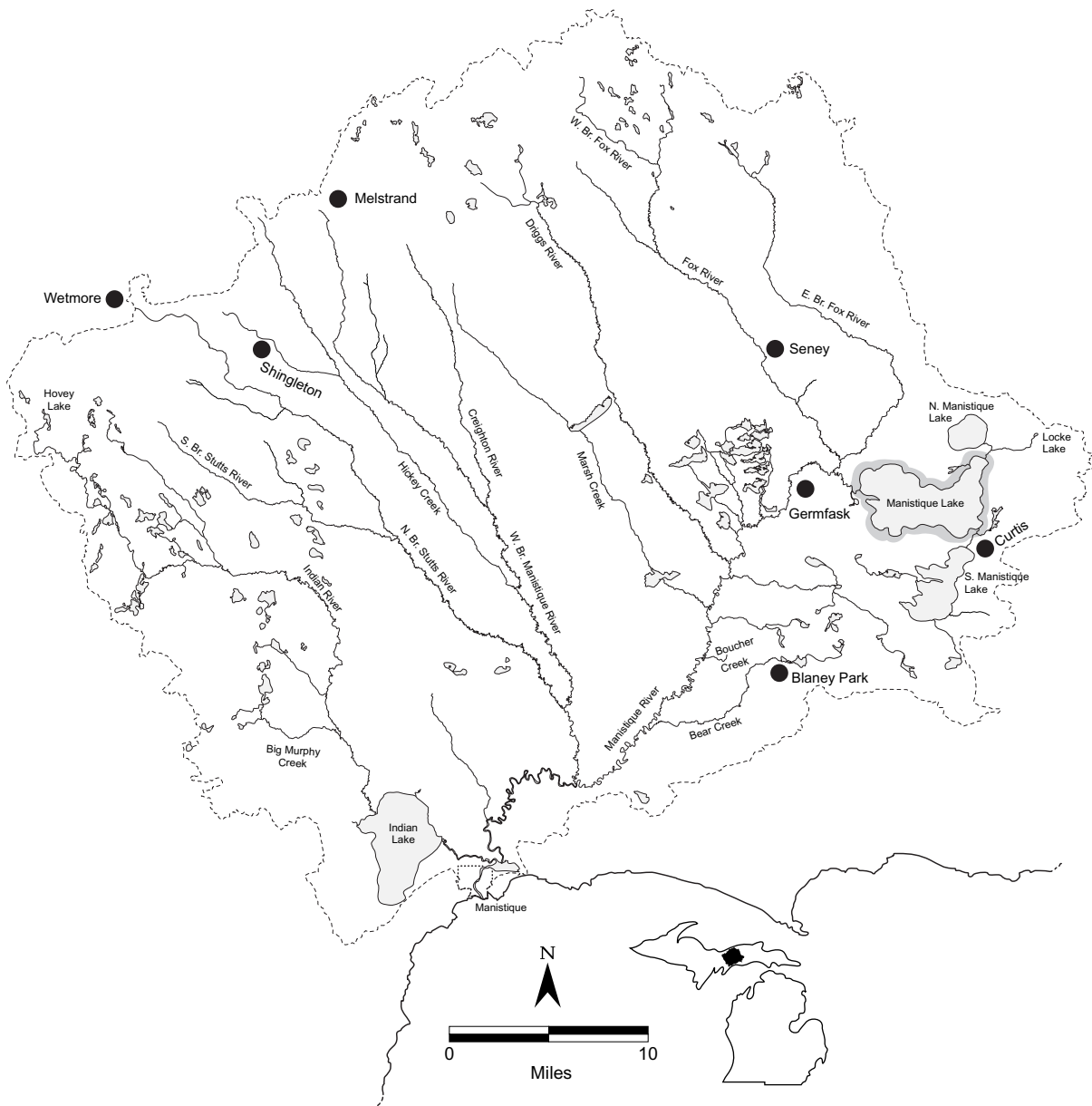


Shorthead redhorse (*Moxostoma macrolepidotum*)

Habitat:

- feeding - downstream sections of large rivers, lakes, and impoundments
- rocky substrates
- swift water near riffles
- clear to slightly turbid water

- spawning - gravelly riffles in smaller feeder streams

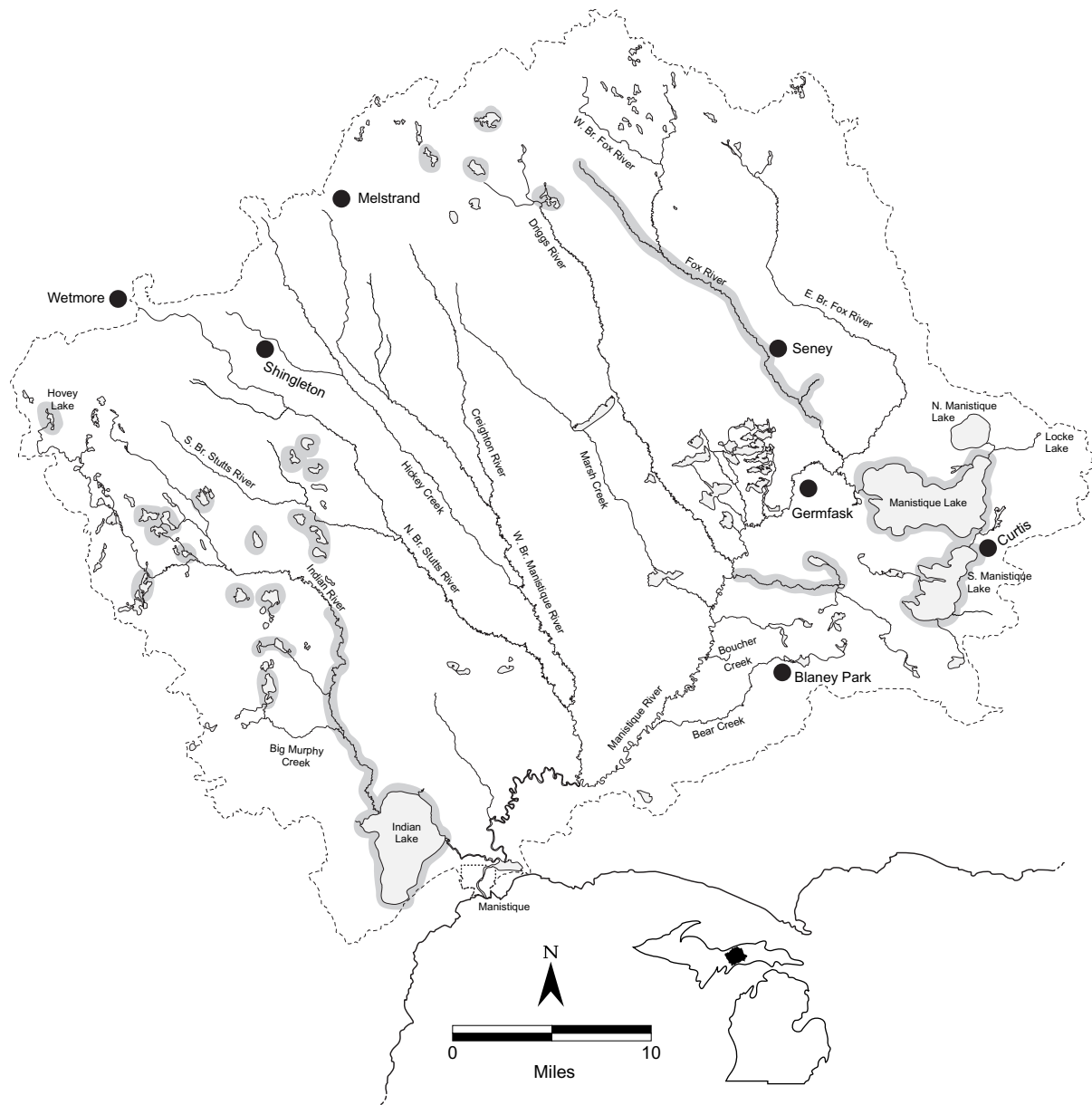


Bullhead spp. (*Ameiurus spp.*)

Habitat:

- feeding - larger streams and rivers, lakes and impoundments
- abundant aquatic vegetation
- tolerant of pollution and low transparency
- tolerant of warm water, low oxygen, and high carbon dioxide
- common in winterkill lakes

winter refuge - in muddy bottoms

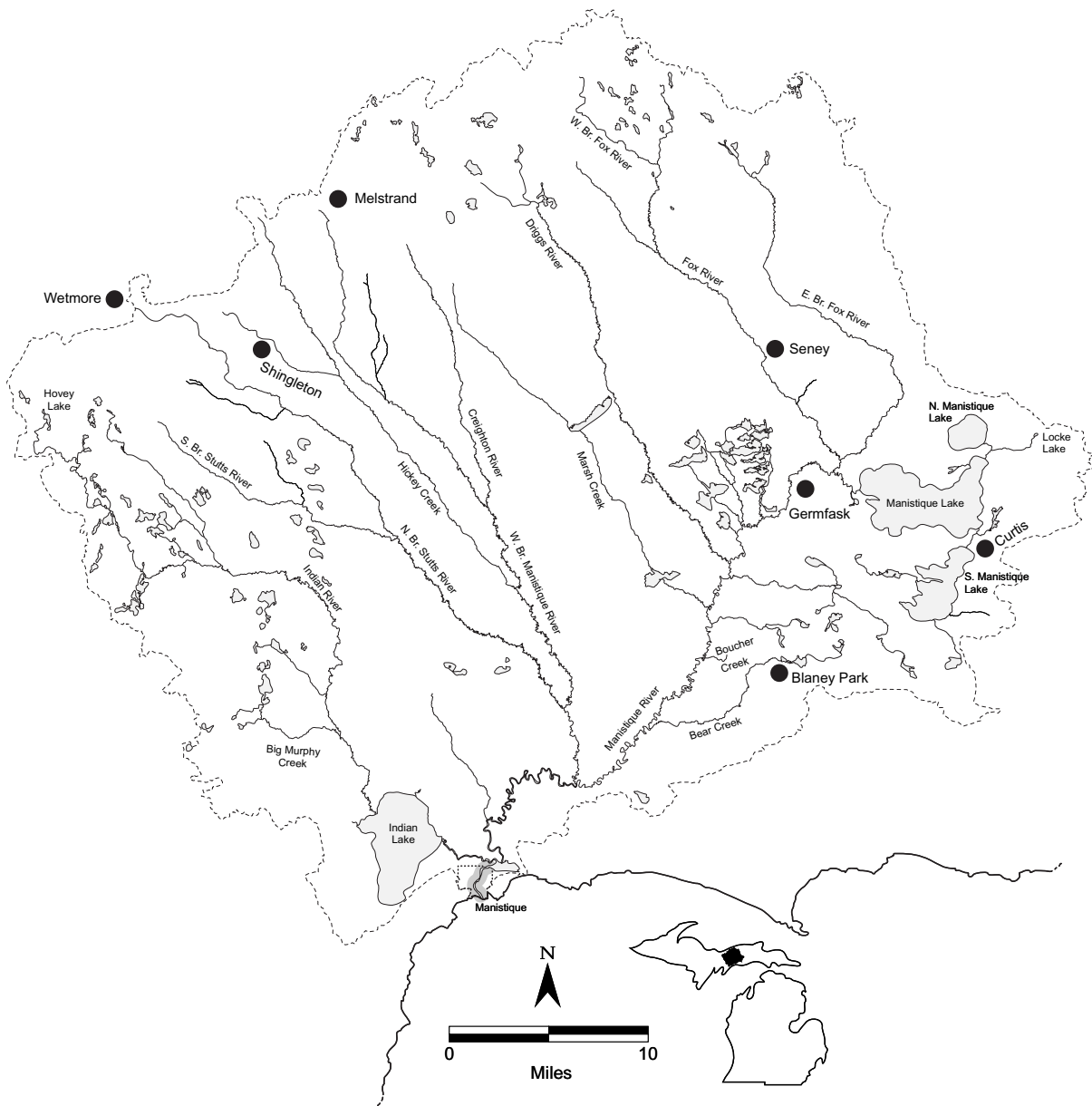


Channel catfish (*Ictalurus punctatus*)

Habitat:

- feeding - moderately-clear, deeper waters of rivers, lakes, and impoundments
 - sand, gravel, or rubble substrate
 - low to moderate gradient

- spawning - secluded semi-dark areas such as holes, under banks, log jams, or rocks

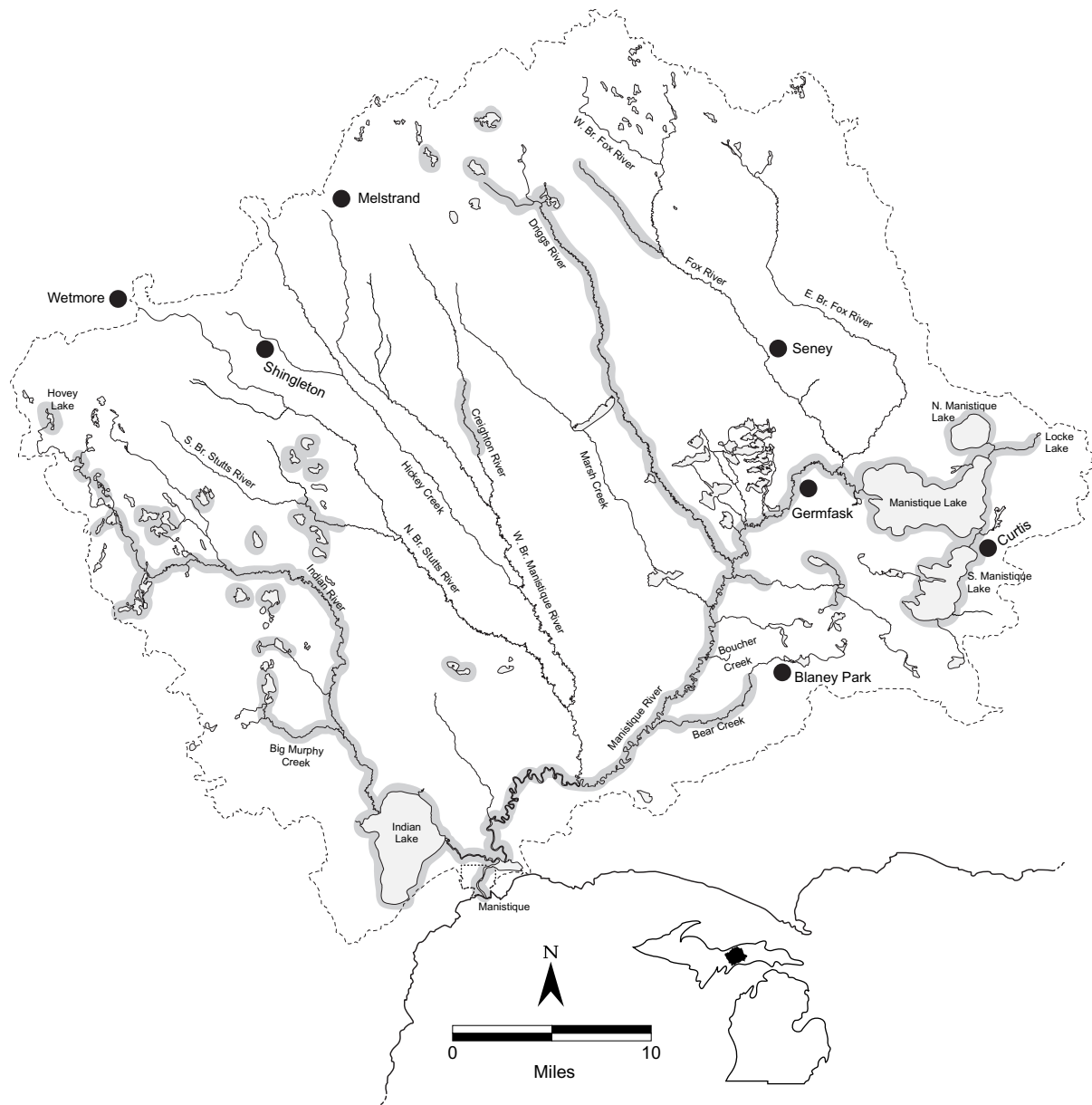


Northern pike (*Esox lucius*)

Habitat:

- feeding - cool to moderately warm streams, rivers, lakes, and impoundments
 - vegetation in slow to moderate current

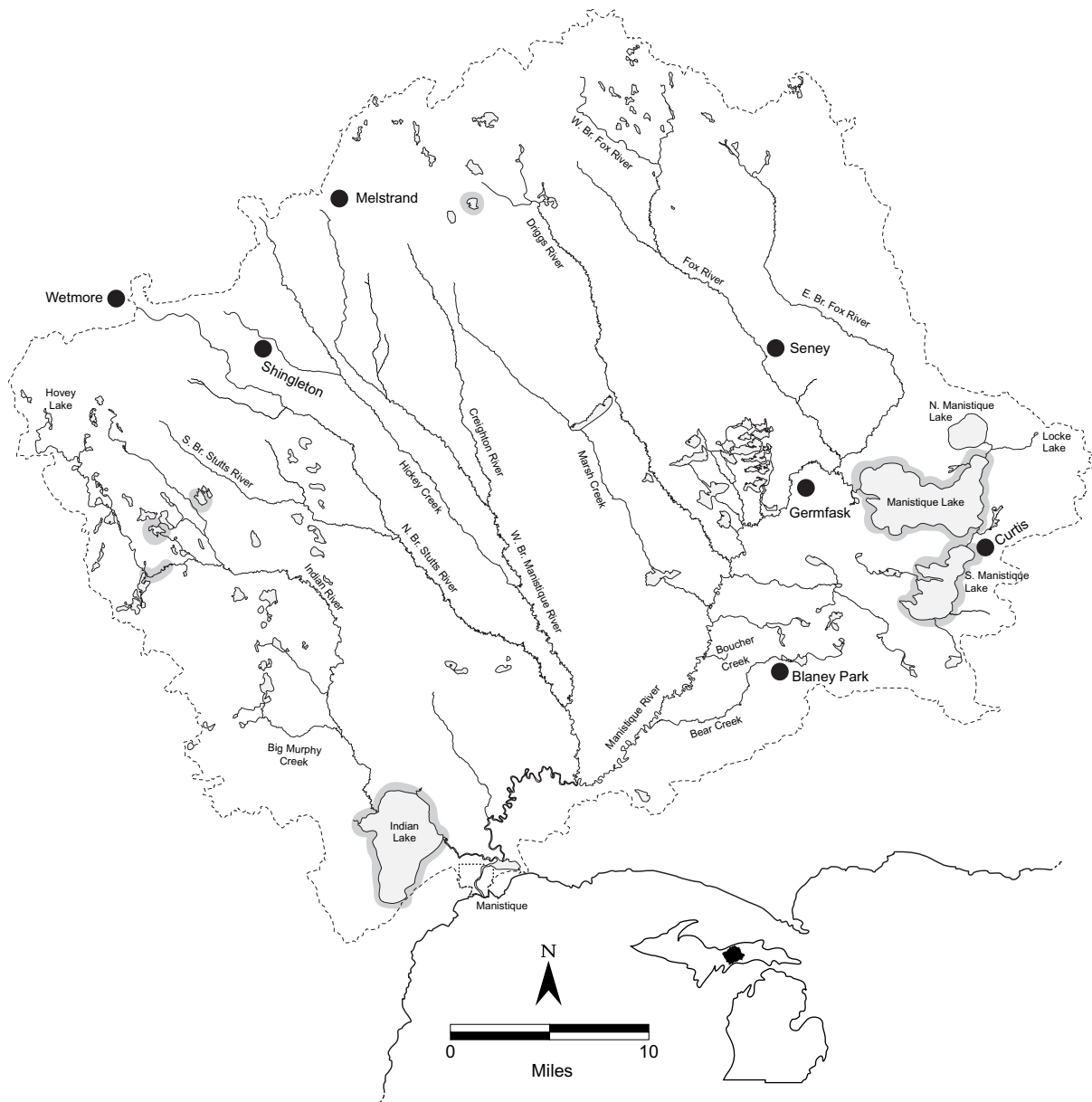
- spawning - submerged vegetation with slow current in shallow water



Muskellunge (*Esox masquinongy*)

Habitat:

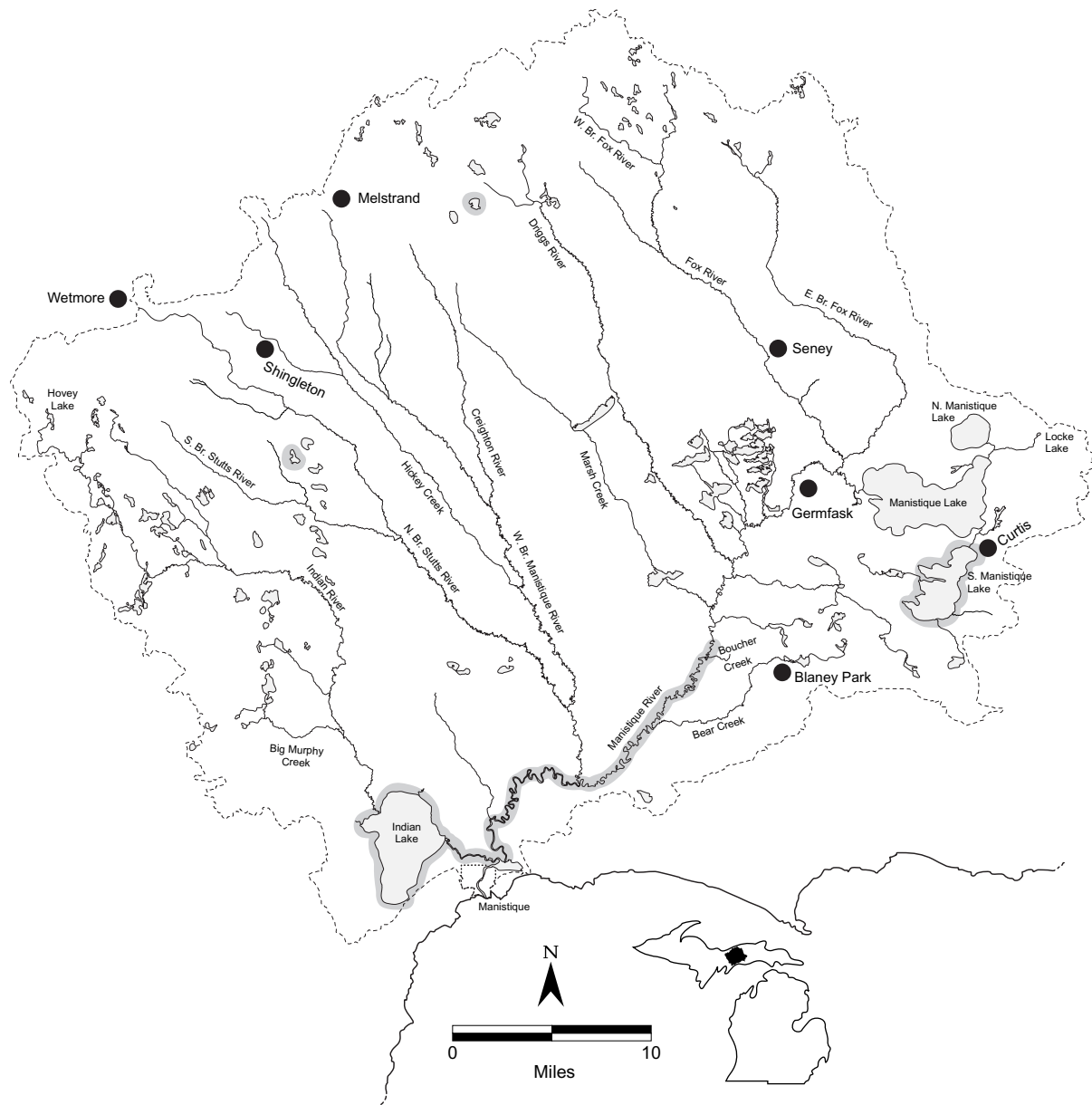
- feeding - warm, heavily vegetated lakes, stumpy weedy bays, and slow heavily vegetated medium to large rivers
 - shallow cool water
 - tolerant of low oxygen
- spawning - clear shallow waters (15-20") in heavily vegetated areas



Tiger muskellunge (*Esox masquinongy* x *E. lucius*)

Habitat:

- feeding - intermediate between muskellunge and northern pike
- spawning - hybrid species; muskellunge x northern pike
 - occasionally produced in wild, but most often from hatcheries
 - males are sterile, females may be fertile

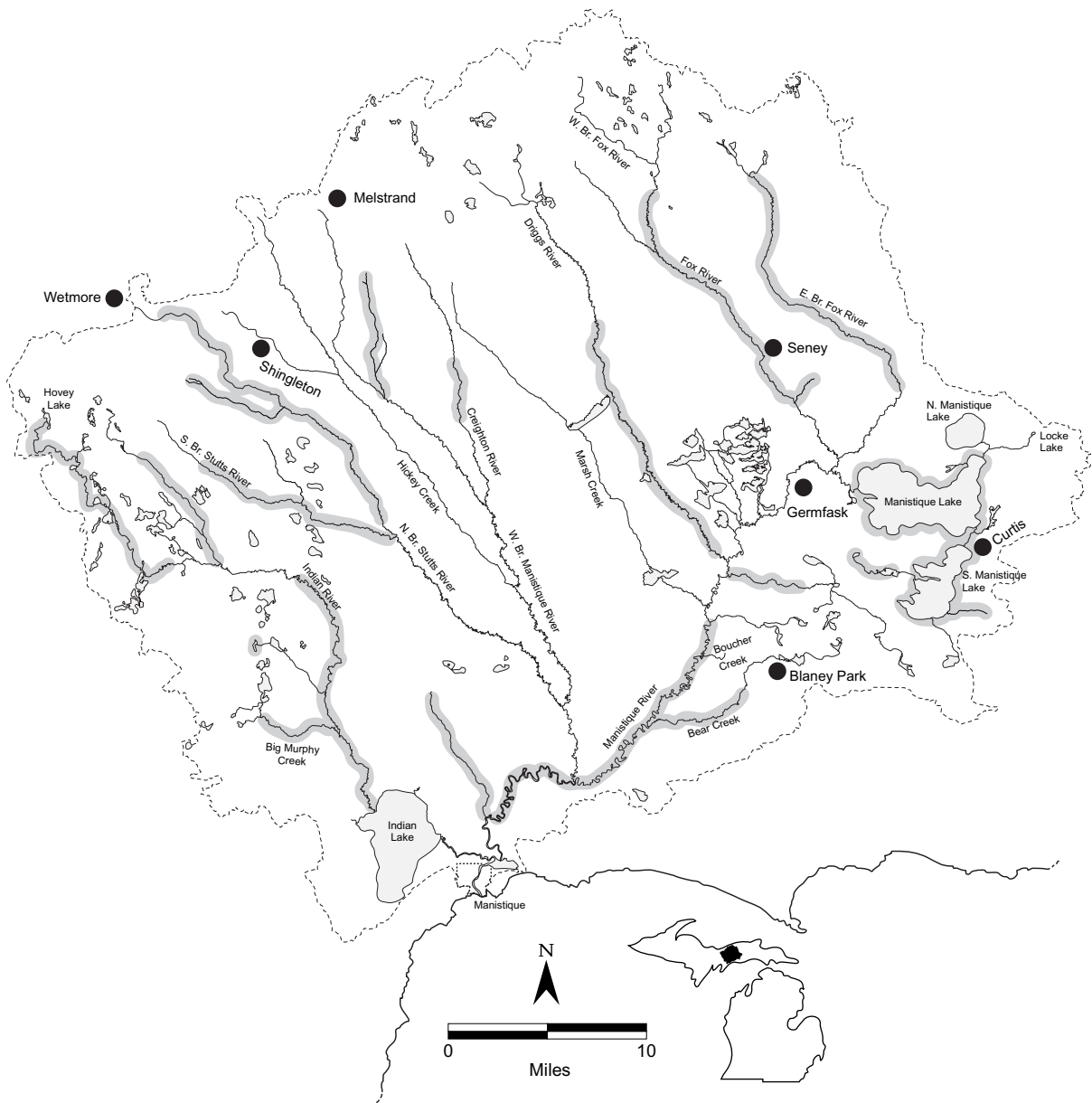


Central mudminnow (*Umbra limi*)

Habitat:

- feeding - undisturbed clear, low-gradient streams or rivers and lakes and impoundments
- organic debris, muck, or peat substrates
- aquatic vegetation

- spawning - floodplain areas, on vegetation

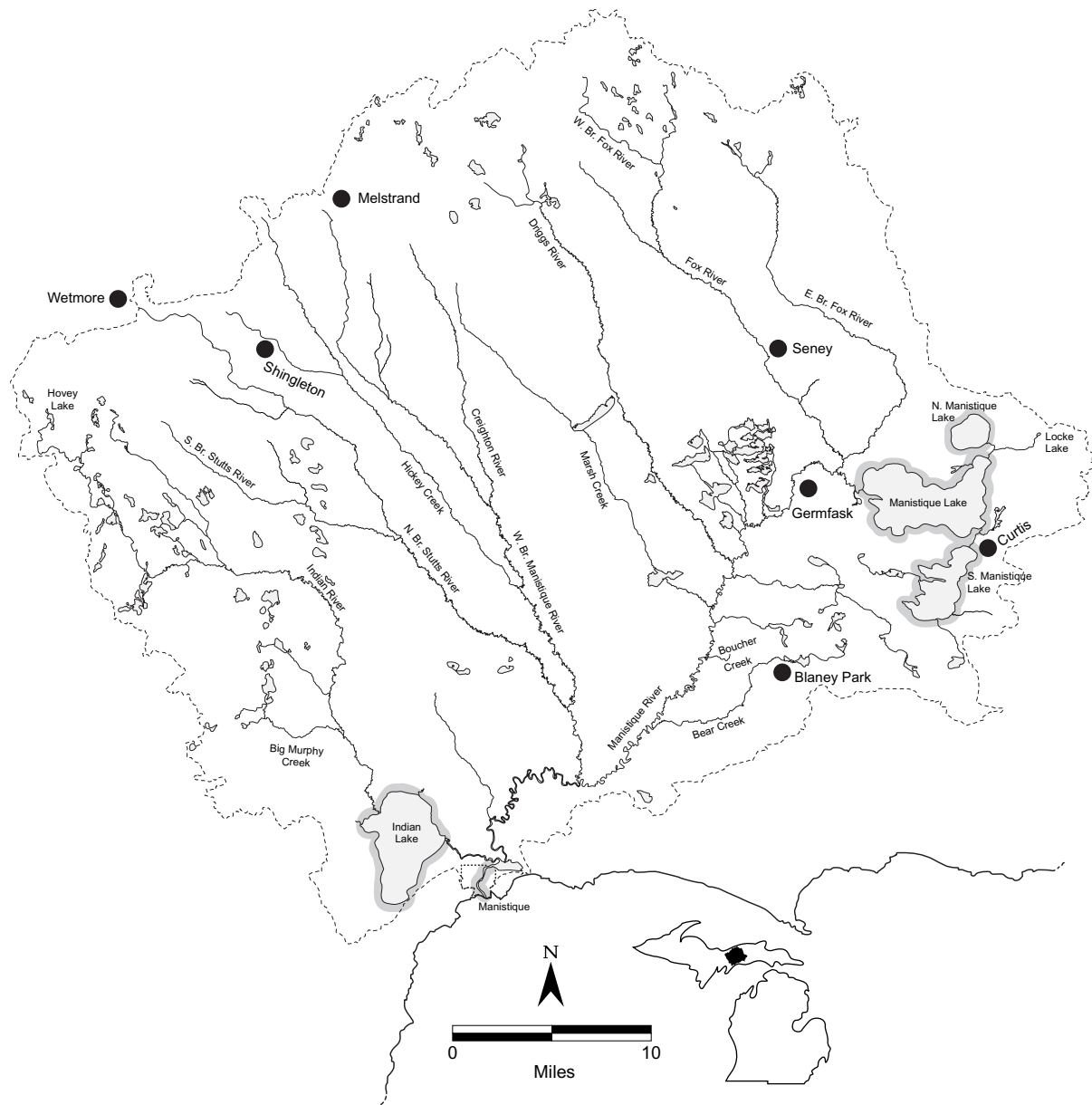


Lake herring {Cisco} (*Coregonus artedi*) - threatened

Habitat:

- feeding - deep cool lakes, preferably oligotrophic

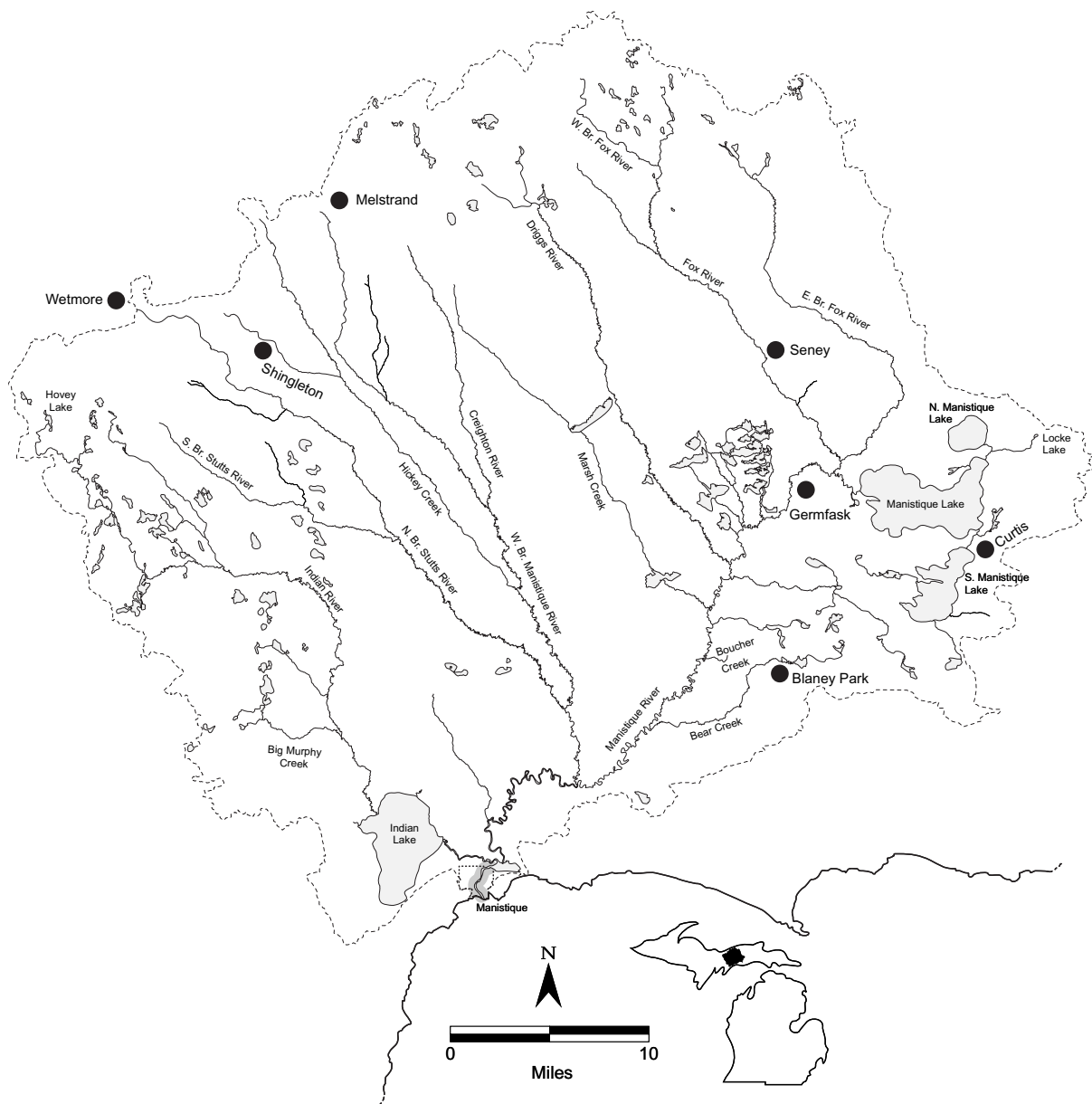
- spawning - usually in lakes
 - 3 to 6 feet of water with no vegetation
 - often over gravel or stony substrate



Pink salmon (*Oncorhynchus gorbuscha*)

Habitat:

- feeding - large cold deep lakes - Lake Michigan
- spawning - gravel substrate in rivers
 - female prepares and guards nest until death

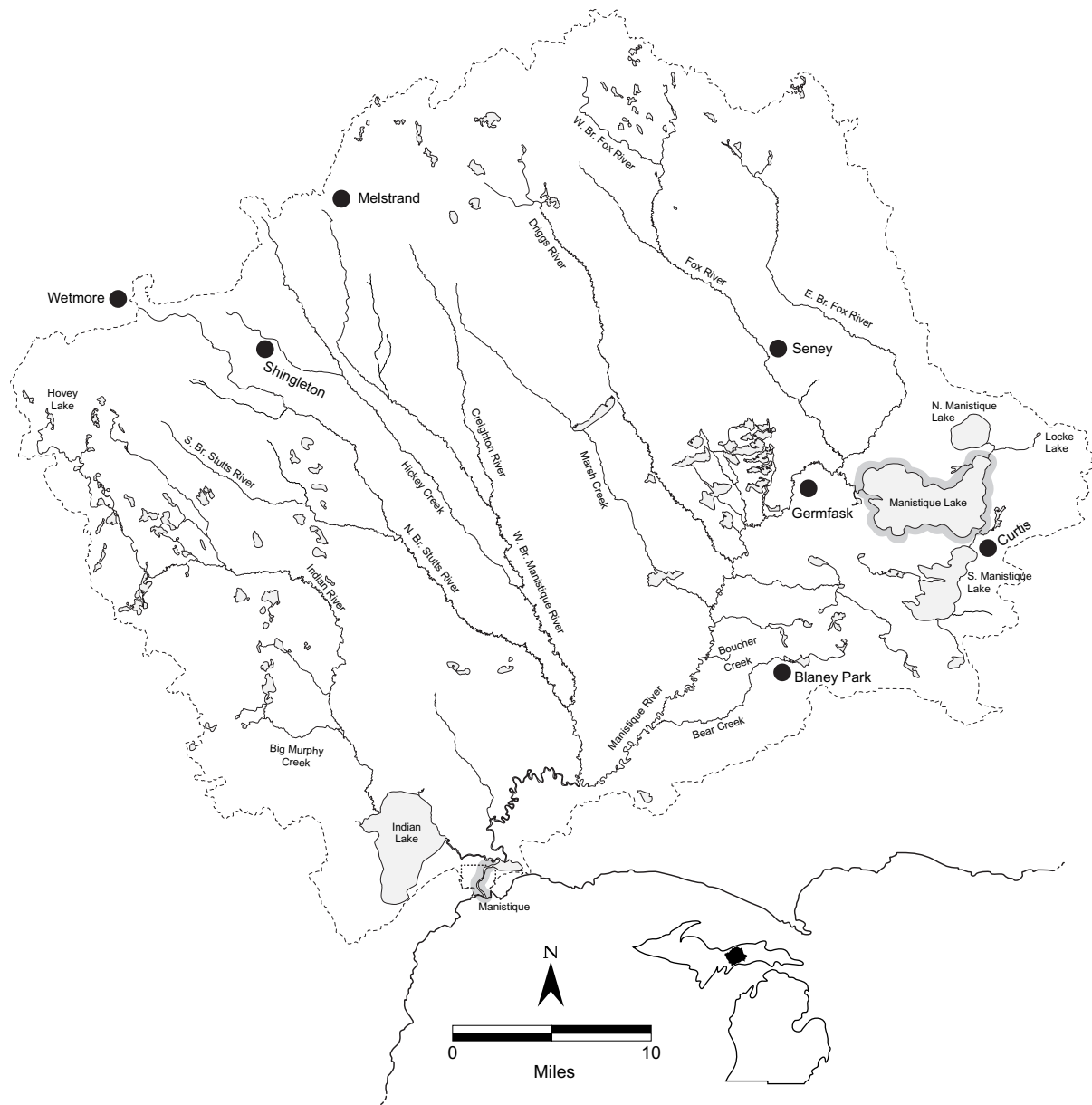


Coho salmon (*Oncorhynchus kisutch*)

Habitat:

- feeding - adults: Lake Michigan
- young: shallow gravel substrate in cold streams, later into pools

- spawning - cold streams and rivers
- swifter water of shallow gravelly substrate

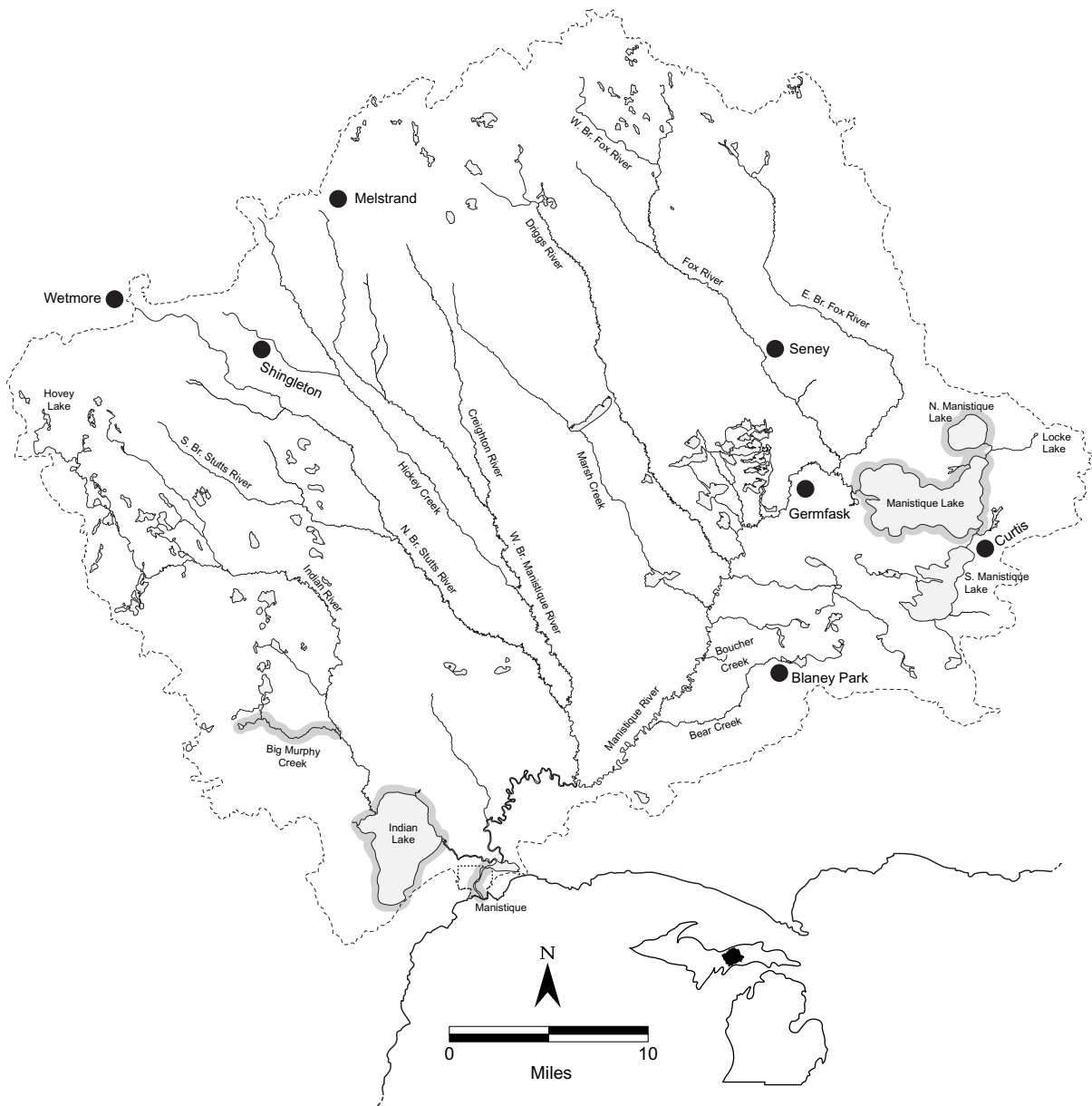


Rainbow trout (*Oncorhynchus mykiss*)

Habitat:

- feeding - cold clear water of rivers and Lake Michigan
- moderate current

- spawning - gravelly riffles above a pool
- smaller tributaries



Chinook salmon (*Oncorhynchus tshawytscha*)

Habitat:

- feeding - adults: Lake Michigan
- young: shallow gravel substrate in cool streams, later into pools

- spawning - gravelly substrate in cool streams

