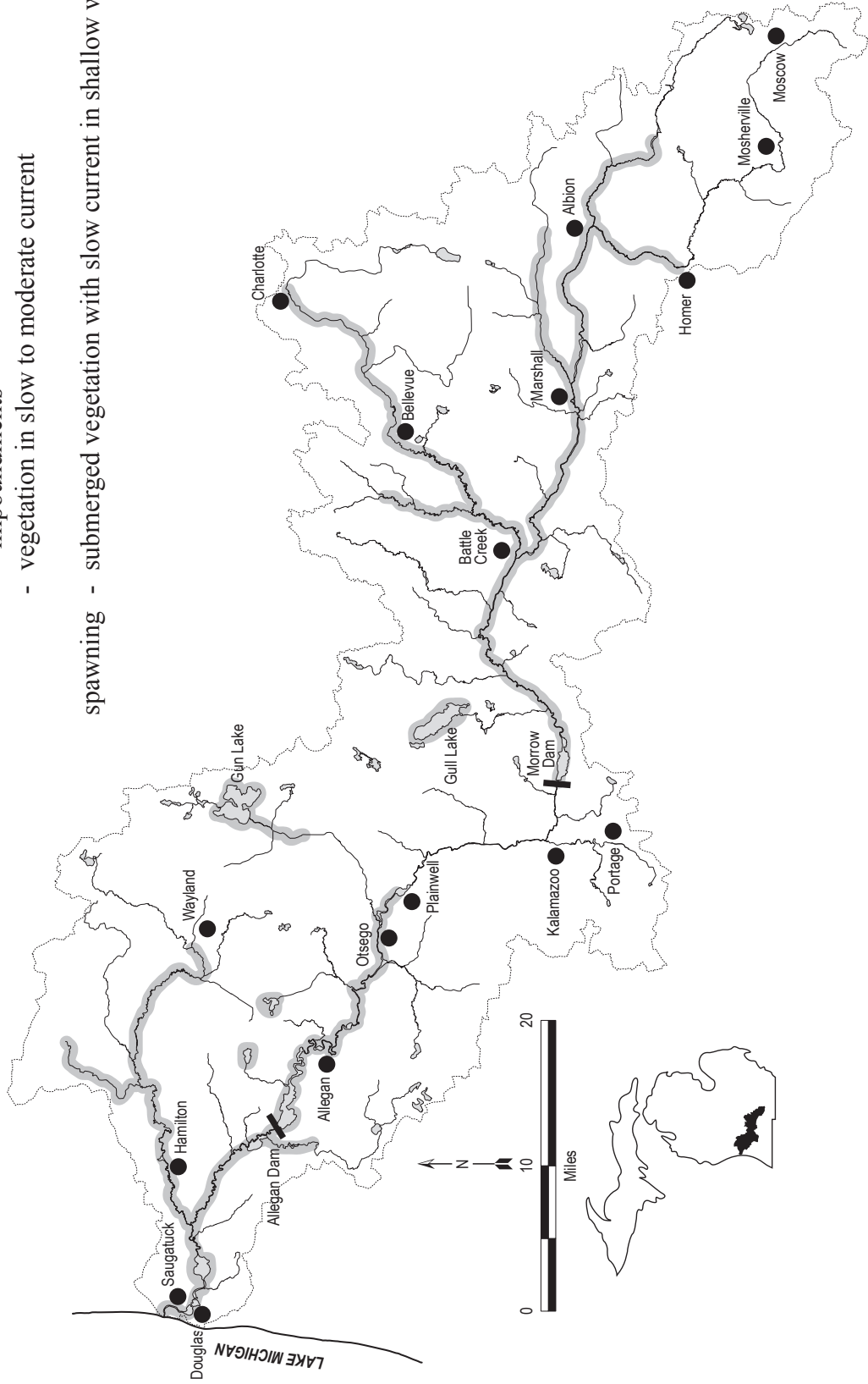


**Northern pike (*Esox lucius*)**

**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

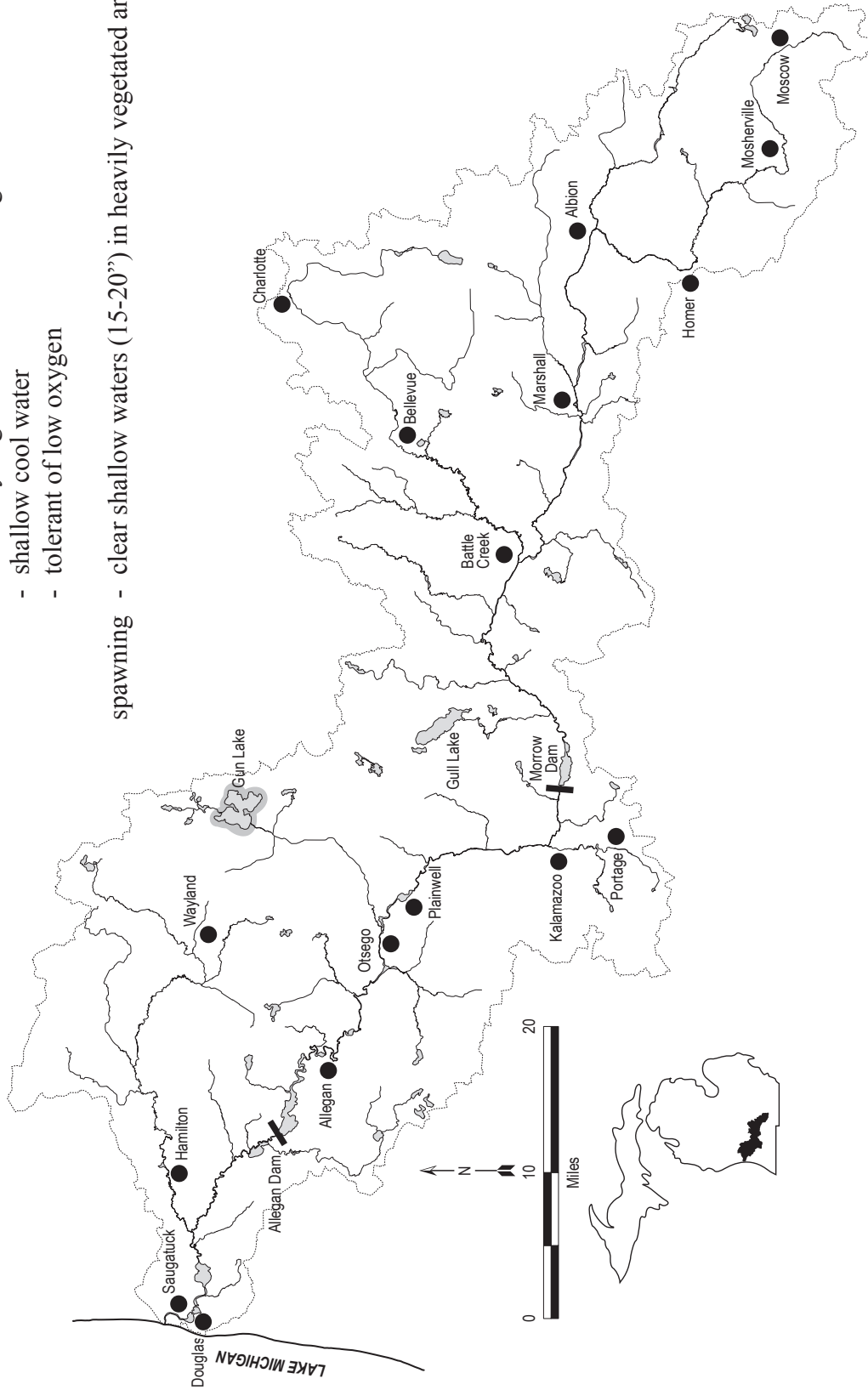


**Muskellunge (*Esox masquinongy*)**

**Habitat:**

- feeding - warm, heavily vegetated lakes, stumpy weedy bays, and slow heavily vegetated medium to large rivers
- shallow cool water
- tolerant of low oxygen

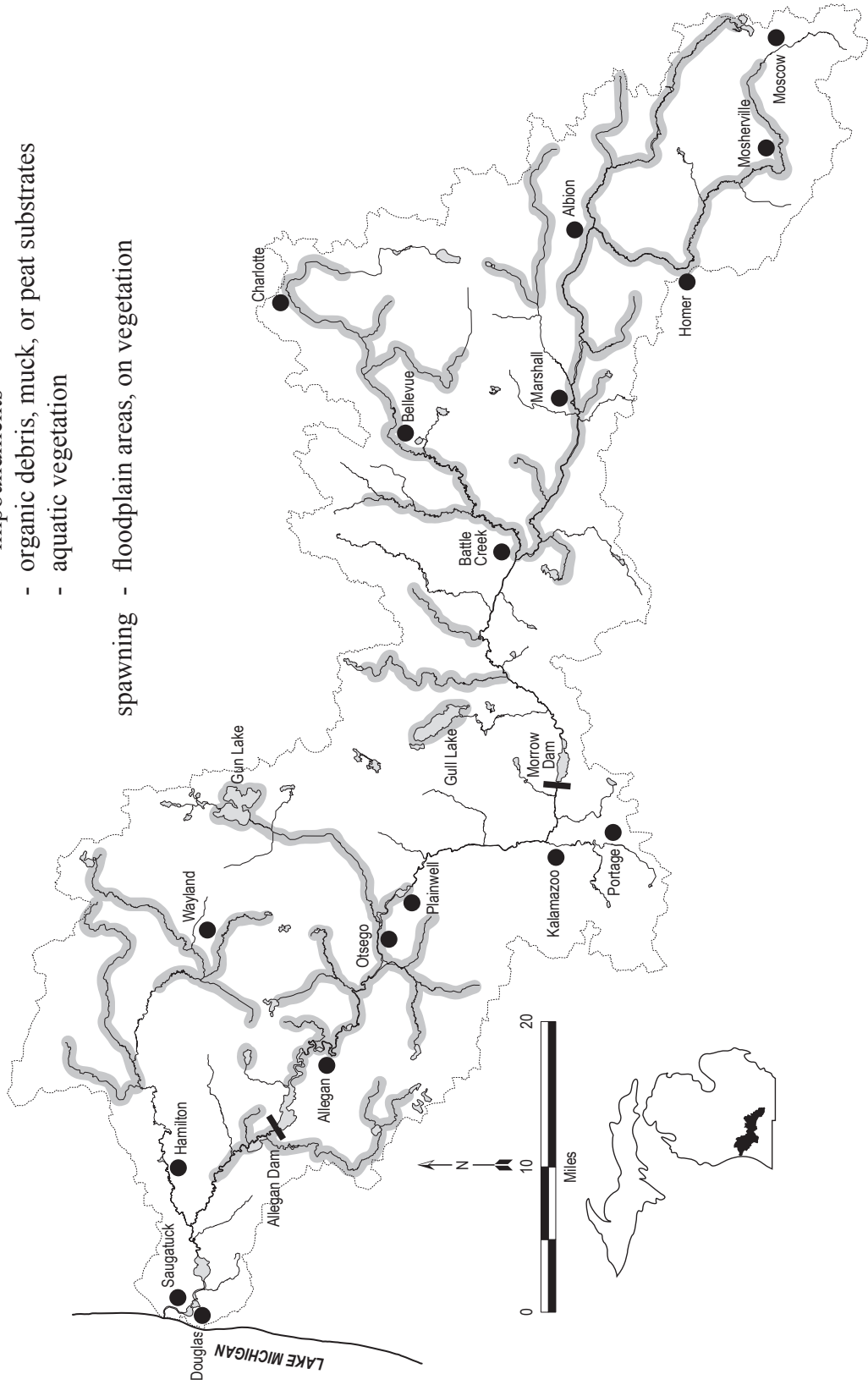
spawning - clear shallow waters (15-20") in heavily vegetated areas



**Central mudminnow (*Umbra limi*)**

**Habitat:**

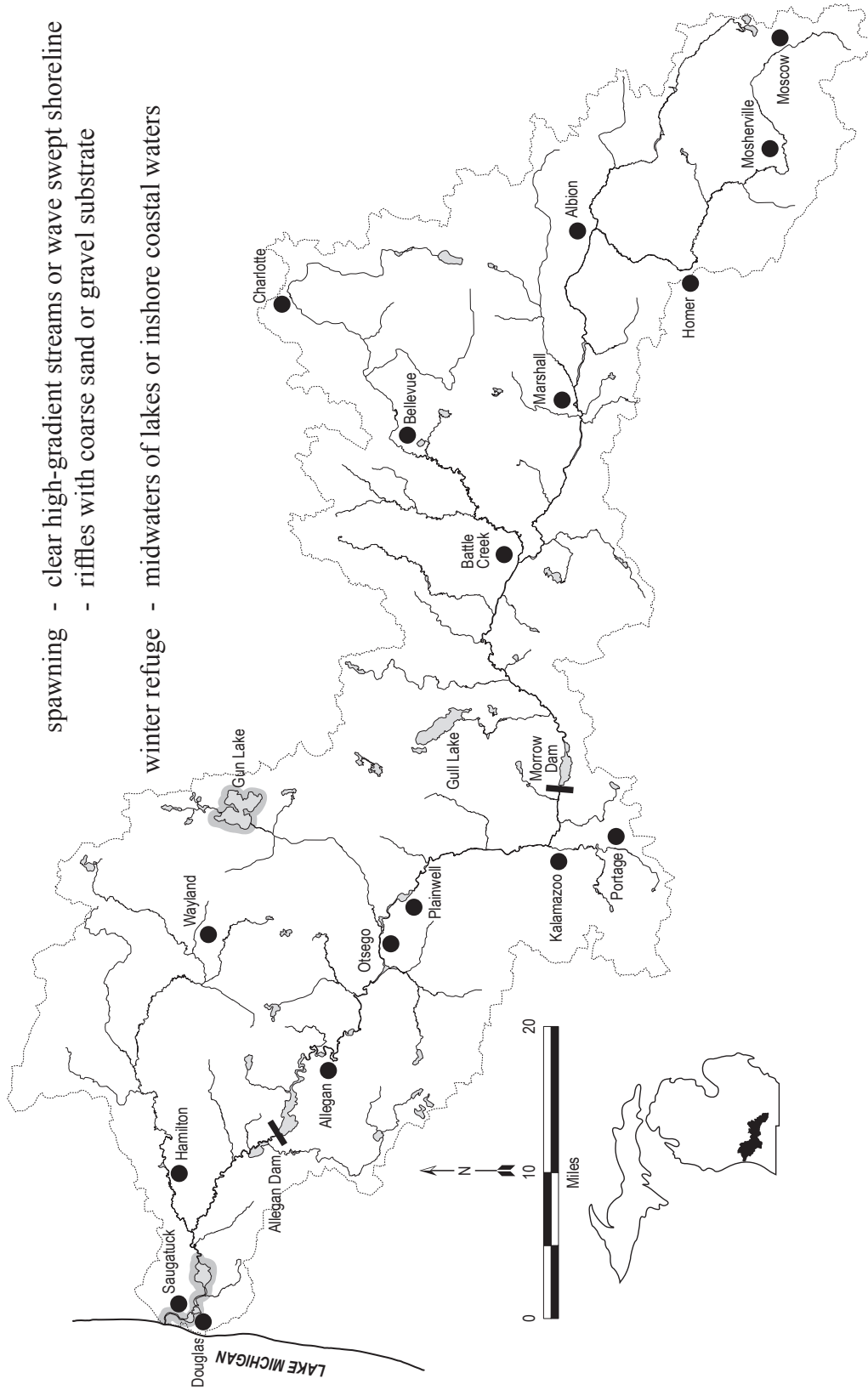
- feeding - undisturbed clear, low-gradient streams or rivers and lakes and impoundments
- organic debris, muck, or peat substrates
- aquatic vegetation
  
- spawning - floodplain areas, on vegetation



**Rainbow smelt (*Osmerus mordax*)**

**Habitat:**

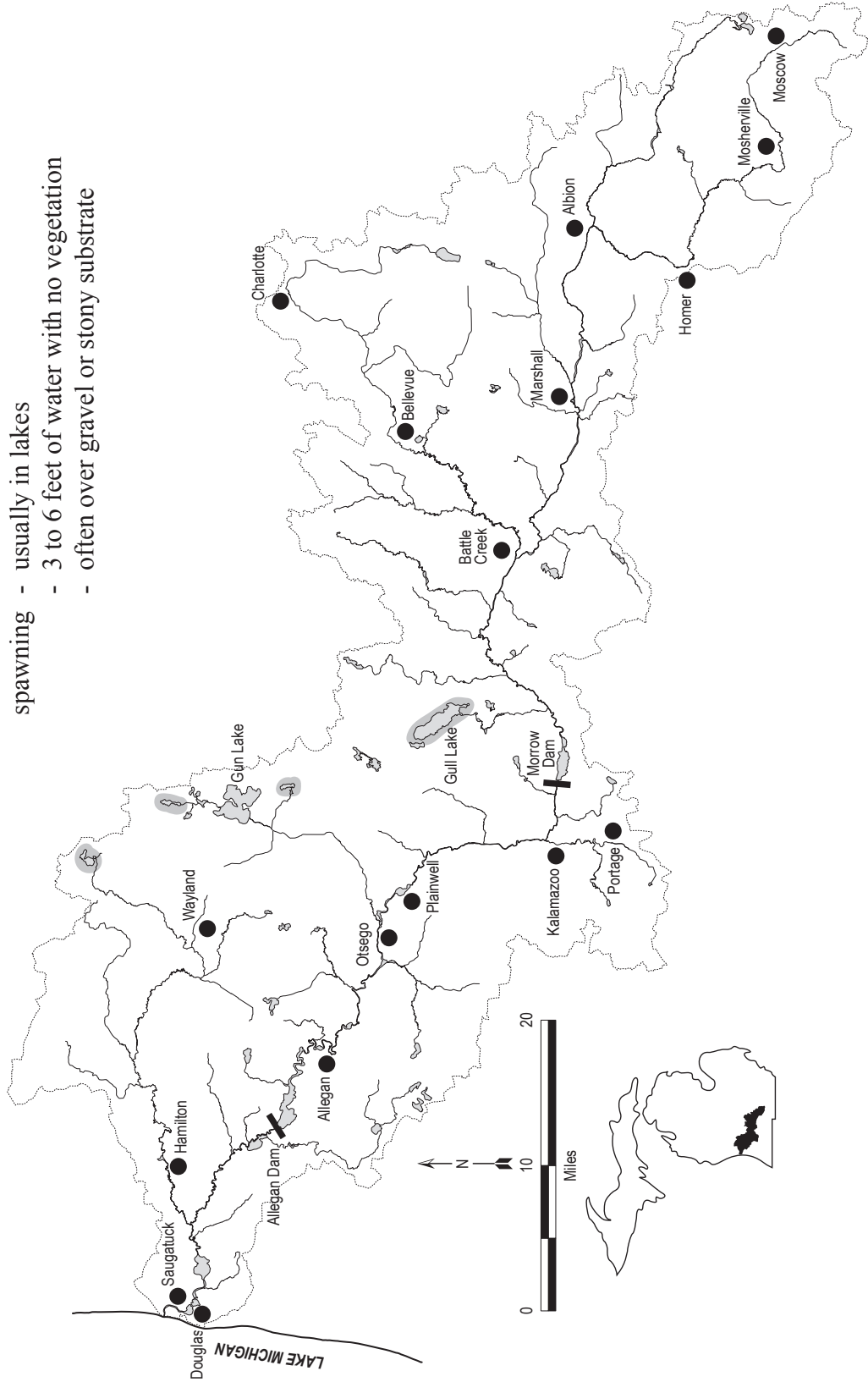
- feeding - young: close inshore lake habitat along sand and gravel beaches
- cold water
- spawning - clear high-gradient streams or wave swept shoreline
- riffles with coarse sand or gravel substrate
- winter refuge - midwaters of lakes or inshore coastal waters



**Cisco {Lake herring} (*Coregonus artedii*) - 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



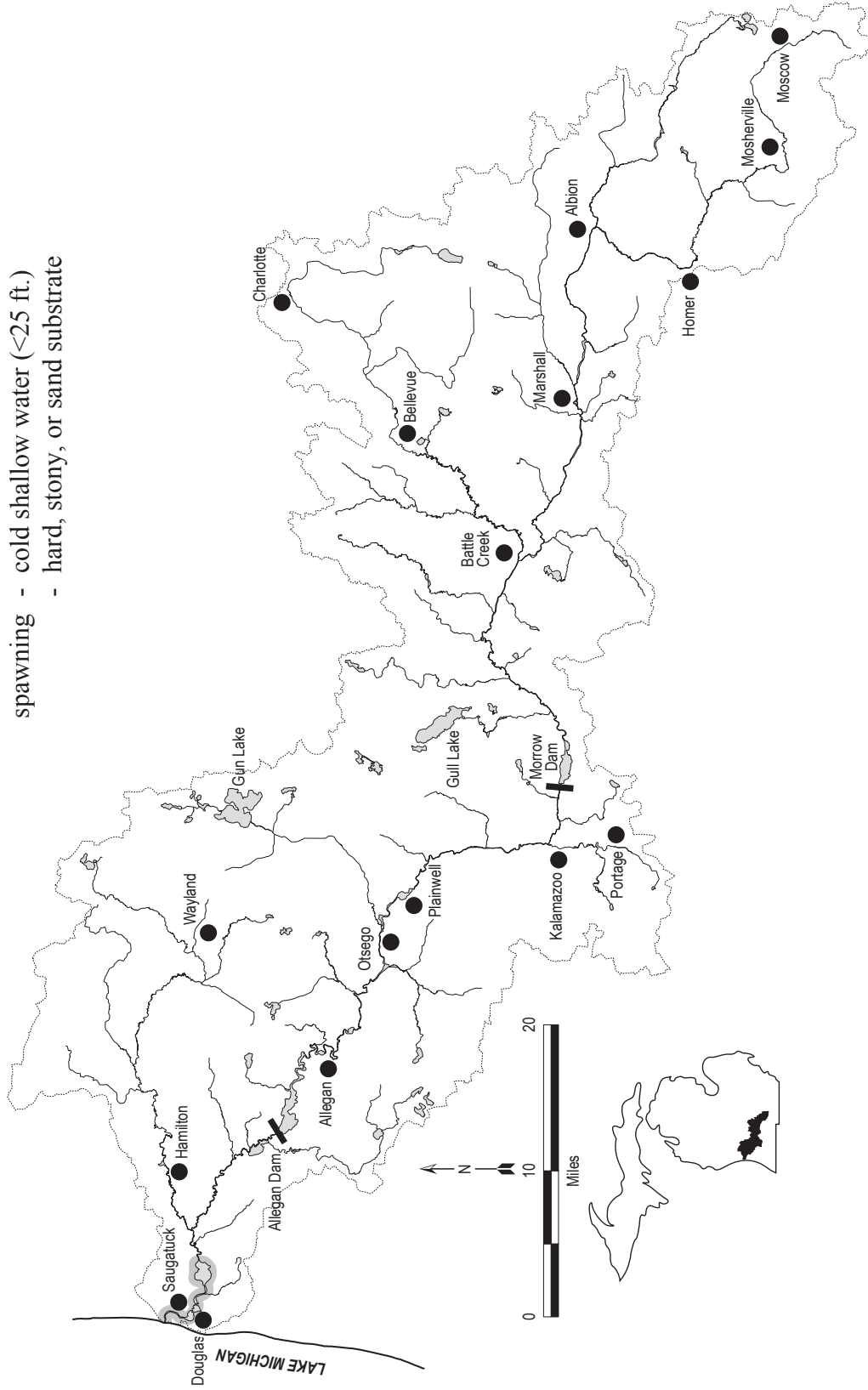
**Lake whitefish (*Coregonus clupeaformis*)**

**Habitat:**

feeding - shallow water (for coregonids; 55-105 ft.)

spawning - cold shallow water (<25 ft.)

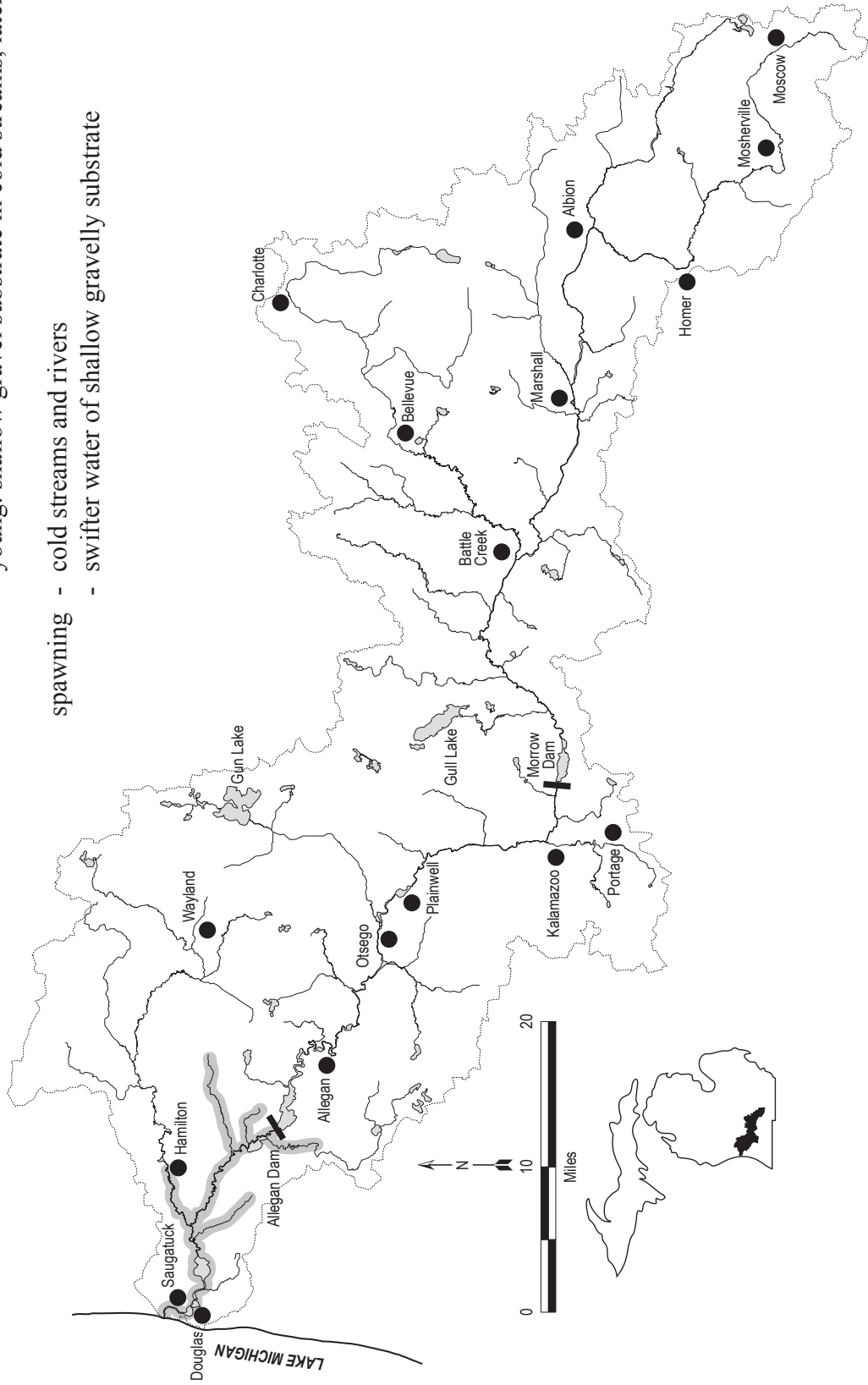
- hard, stony, or sand substrate



**Coho salmon (*Oncorhynchus kisutch*)**

**Habitat:**

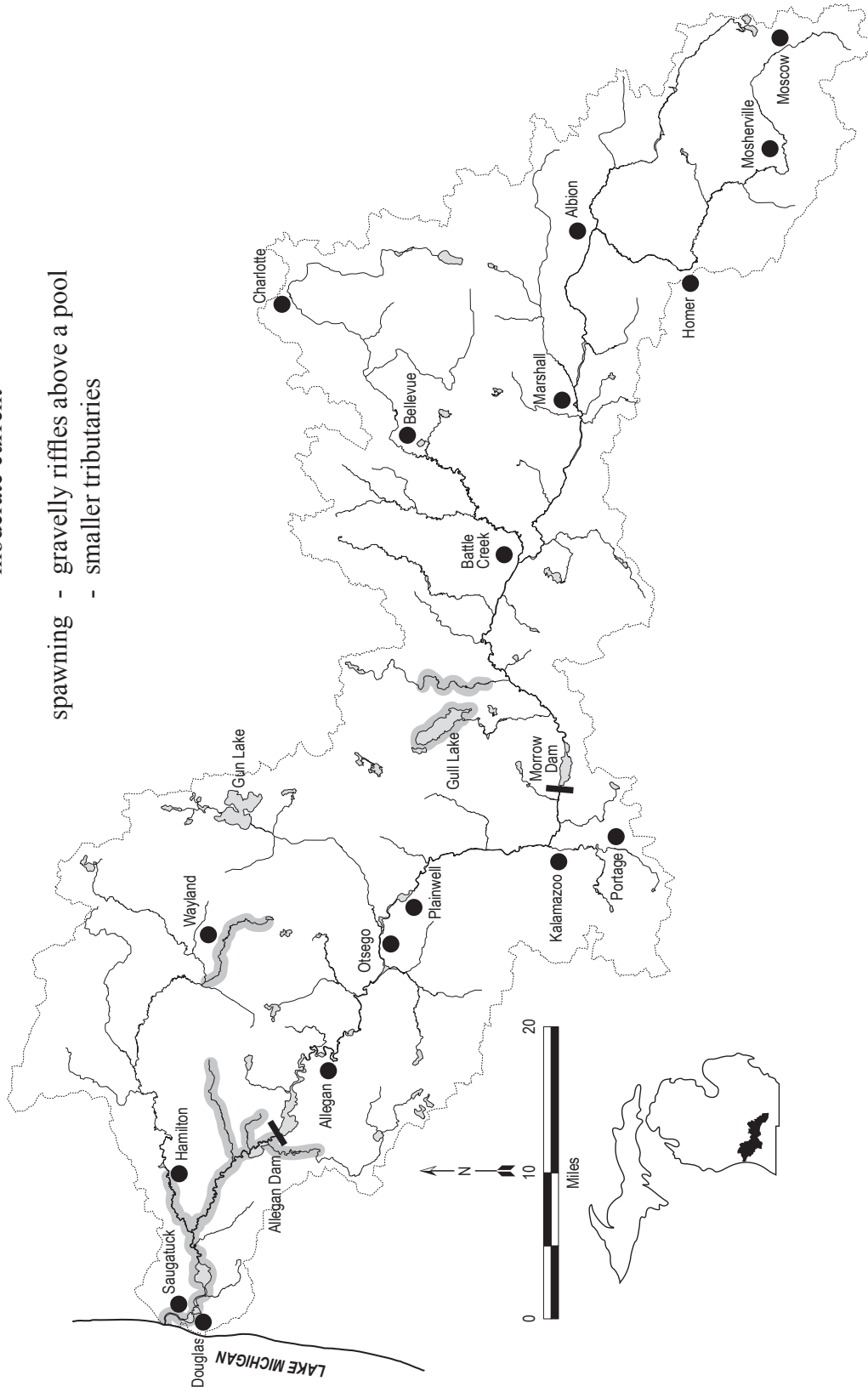
- feeding - adults: Lake Michigan
- young: shallow gravel substrate in cold streams, later into pools
- spawning - cold streams and rivers
- swifter water of shallow gravelly substrate



**Rainbow trout (*Oncorhynchus mykiss*)**

**Habitat:**

- feeding - cold clear water of rivers and Lake Michigan
- moderate current
- spawning - gravelly riffles above a pool
- smaller tributaries

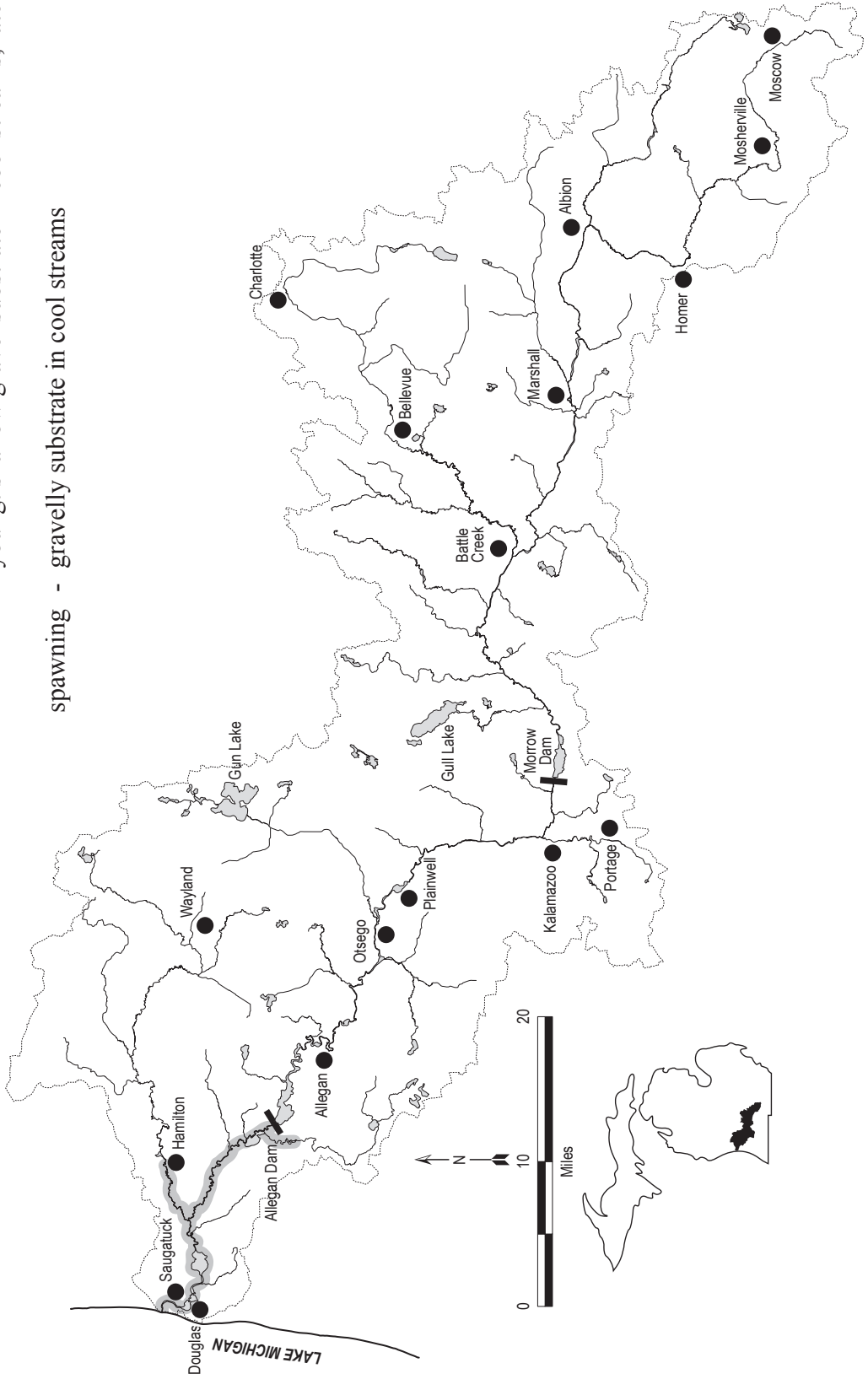




**Chinook salmon (*Oncorhynchus tshawytscha*)**

**Habitat:**

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



**Round whitefish (*Prosopium cylindraceum*)**

**Habitat:**

feeding - lakes, rivers, and streams

spawning - shallows of lakes and rivers

- gravel or rock substrate

