Black crappie (*Pomoxis nigromaculatus*)

**Habitat:**

feeding - larger clear non-silty low-gradient rivers; also in lakes and impoundments
- clean hard sand or muck substrate
- associated with submerged aquatic vegetation
- does not tolerate silt or turbidity well

spawning - nests in gravel, sand, or mud substrate
- some vegetation must be present
- sometimes nests under banks
Rainbow darter (*Etheostoma caeruleum*)

**Habitat:**
- feeding - gravelly high gradient riffles
- clear, moderate to large streams
- in shallows (average 1 foot)
- spawning - gravel or rubble riffles
**Iowa darter** (*Etheostoma exile*)

**Habitat:**
- **feeding:** clear, slow moving streams and lakes
- sandy to muddy substrates
- intolerant of turbid water
- lives in rooted aquatic vegetation
- **spawning:** in pond-like extensions of streams on organic matter or roots
- in shallows
Least darter (*Etheostoma microperca*)

**Habitat:**

- **feeding** - moderate to warm temperature
  - clear quiet low-gradient vegetated streams (wetlands, floodplains)
  - soft substrate

- **spawning** - spawning occurs on stems of plants
  - male guards a territory in a vegetated area
Johnny darter (*Etheostoma nigrum*)

**Habitat:**
- **feeding** - sand and silt substrate
- little to moderate current
- shallow areas of streams, rivers, lakes, and impoundments
- tolerant of many organic and inorganic pollutants and turbidity
- **spawning** - underneath rocks
- in stream pools or protected shallows of lakes
**Ruffe** (*Gymnocephalus cernuus*)

**Habitat:**

- **feeding**
  - shallow waters at night
  - soft bottoms and no vegetation

- **spawning**
  - warm shallows of turbid lakes with soft bottoms
  - little or no vegetation present
  - slow-moving water

- **winter refuge**
  - deeper water
Yellow perch (*Perca flavescens*)

**Habitat:**

- **feeding**
  - clear lakes and impoundments; also Lake Huron
  - low gradient rivers
  - abundance of rooted aquatics
  - muck, organic debris, sand, or gravel substrate
  - does not tolerate turbidity and siltation

- **spawning**
  - shallows of lakes, tributaries of streams
  - occurs over rooted vegetation, submerged brush, fallen trees
  - may occur over sand or gravel
Logperch (*Percina caprodes*)

**Habitat:**

- **feeding** - gravel riffles, deeper slower sections of rivers
- medium size streams; also lakes, impoundments, and Lake Huron
- sand, gravel, or rock substrate
- avoids turbidity and silt

- **spawning** - riffles or sandy in-shore shallows
Blackside darter (*Percina maculata*)

**Habitat:**
- feeding - small to medium streams
  - low to medium gradient
  - gravel and sand substrate
  - tolerate some turbidity

- spawning - gravel and sand substrate
Walleye (*Sander vitreus*)

**Habitat:**
- **feeding** - larger, deeper streams and in large, shallow, turbid lakes and impoundments; also Lake Huron
  - gravel, bedrock, and firm substrates preferred
  - does not tolerate a lot of turbidity or low oxygen
- **spawning** - rocky substrates in high gradient water in rivers
  - boulder to coarse gravel shoals in lakes
- **winter refuge** - avoids strong currents
Freshwater drum \textit{(Aplodinotus grunniens)}

\textbf{Habitat:}

- **feeding**
  - deeper pools of rivers and Lake Huron
  - in shallows
  - prefers clear waters and clean substrates
  - can adapt to high turbidity levels

- **spawning**
  - pelagically, in open water, over sand or mud substrate
  - occurs in bays or lower portions of marshes
Round goby \textit{(Neogobius melanostomus)}

Habitat:

- feeding - rock, cobble, riprap, and vegetate areas of rivers and lakes
- young found over sand substrate

- spawning - rocky substrate with large interstitial spaces

- winter refuge - rocky substrate with large interstitial spaces
- deep water
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