Brown trout (*Salmo trutta*)

**Habitat:**

**feeding**  -  cold, clear streams, rivers, and lakes (not >70°F)
-  medium to swift current in streams
-  does not tolerate silt well
-  prefers few individuals and species around
-  abundance of aquatic and land insects

**spawning**  -  gravelly riffles; shallow headwater areas
**Brook trout** (*Salvelinus fontinalis*)

**Habitat:**

- feeding - cold, clear streams, rivers, and lakes (not >65°F)
- low current
- well oxygenated water

- spawning - gravelly riffles; shallow or headwater streams
Lake trout \textit{(Salvelinus namaycush)}

**Habitat:**
- feeding - cold lakes and rivers
- spawning - large boulder or rubble substrate
- shallow water of lakes and rivers
**Splake** (*Salvelinus fontinalis x Salvelinus namaycush*)

**Habitat:**
- **feeding** - littoral habitat
  - cool water lakes; also Lake Michigan
- **spawning** - hatchery produced cross of brook and lake trout
  - offspring usually fertile, but with lower fecundity than either parent species
**Burbot** (*Lota lota*)

**Habitat:**

- **Feeding:**
  - deep cold lakes and large cool rivers
  - mud, sand, rubble, boulder, silt, and gravel substrates

- **Spawning:**
  - in 1 to 4 feet of water in shallow bays or on shoals 5-10 feet deep usually in lakes, sometimes rivers
  - over sand or gravel substrate
  - under ice
Western banded killifish (*Fundulus diaphanus menona*)

**Habitat:**

- feeding - quiet backwaters at the mouths of streams and lakes
- substrate of sand, gravel, and a few boulders
- also found over detritus substrate where patches of submerged aquatic vegetation are present

- spawning - quiet areas of weedy pools
**Brook stickleback** (*Clucaea inconstans*)

**Habitat:**

feeding - clear, cold, densely vegetated streams, and swampy margins of lakes
- low gradient
- muck, peat, or marl substrate
- not tolerant of turbidity

spawning - shallow cool (<66°F) water
- aquatic reeds or grasses necessary
**Mottled sculpin (Cottus bairdii)**

**Habitat:**
- feeding - cool to cold streams
  - riffle and rock substrates preferred
  - clear to slightly turbid shallow water
- spawning - nests under logs or rock
**Rock bass** (*Ambloplites rupestris*)

**Habitat:**

- **feeding** - clear, cool streams, rivers, and lakes
  - rocky to sand substrate
  - woody or vegetative cover

- **spawning** - sand or gravel nests
  - shallow water

- **winter refuge** - deep water
Green sunfish (*Lepomis cyanellus*)

**Habitat:**

- **feeding** - impoundments and lakes, and low-current streams and rivers
- **no substrate preference**

- **spawning** - nests in shallow areas sheltered by rocks, logs, or aquatic vegetation
**Pumpkinseed sunfish** (*Lepomis gibbosus*)

**Habitat:**

- **feeding**
  - non-flowing clear water in streams and rivers; also lakes and impoundments
  - muck or sand partly covered with organic debris substrate
  - dense beds of submerged aquatic vegetation

- **spawning**
  - nest in sand, gravel, or rock substrate
  - in shallow water near submerged vegetation
Bluegill \textit{(Lepomis macrochirus)}

**Habitat:**

- feeding - non-flowing clear streams and rivers; also lakes and impoundments
- sand, gravel, or muck containing organic debris substrate
- scattered beds of aquatic vegetation
- cannot tolerate low oxygen or continuous high turbidity and siltation

- spawning - nests in firm substrate of gravel, sand, or mud

- winter refuge - deep water