Fathead Minnow—*Pimephales promelas*

**HABITAT**
Class: Warm water

**Structure**
Riverine
- Substrate: Select mud substrate, although found over gravel.
- Gradient:
- Width:
- Depth:
- Stream size:
- Stream flow: Select low velocities.
- Stream discharge:
- Zones: Select pools.
- Comments: Abundant in backwater >0.15 m deep.

Lacustrine
- Substrate:
- Trophic level:
- Area:
- Depth:
- Comments:

Palustrine
- Substrate:
- Area:
- Depth:
- Comments: Found in wetlands.

Comments: Often found in association with central mudminnow, creek chub, brook stickleback, blacknose dace, white sucker, Johnny darter.

**Physico-chemical conditions**
Temperature: Avoid <25°C and > 32°C, select 26-26.6°C.

Turbidity:

Transparency:

Dissolved oxygen:

pH:

Alkalinity:

Conductivity:

Total dissolved solids:

Total nitrogen:

Nitrate:

Nitrite:
Ammonia:
Orthophosphate:
Comments:

**Biological**
- Aquatic vegetation:
- Shoreline habitat:
Comments:

**REPRODUCTION**
- Spawning temperature: Optimal temperature 17.8°C.
- Spawning substrate:
Comments:

**KEY**
- Habitat Class: warm water, cold water
- Riverine Zones: riffle, pool, run
- Lacustrine Trophic Level: oligotrophic, dystrophic, eutrophic, mesotrophic


**Literature Cited**


