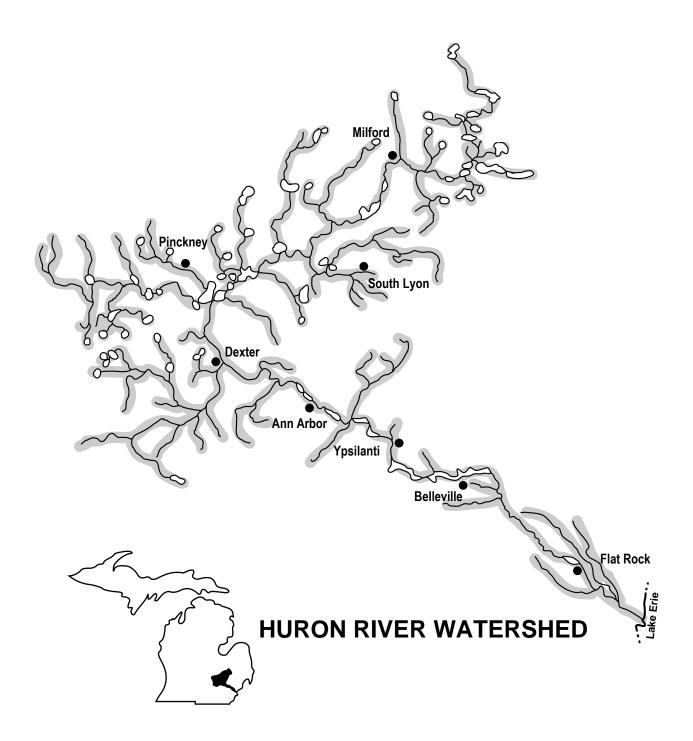
Green sunfish (*Lepomis cyanellus*)

- 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

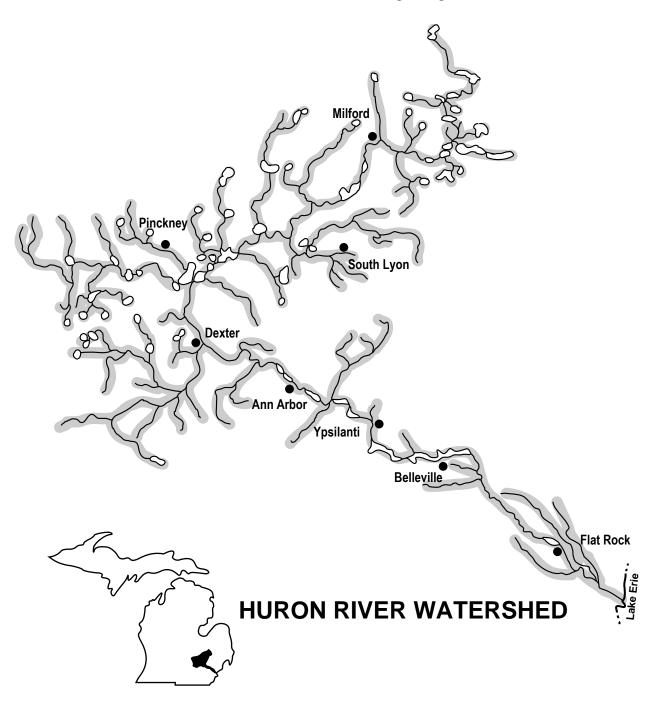


Pumpkinseed sunfish (Lepomis gibbosus)

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 substratein shallow water near submerged vegetation

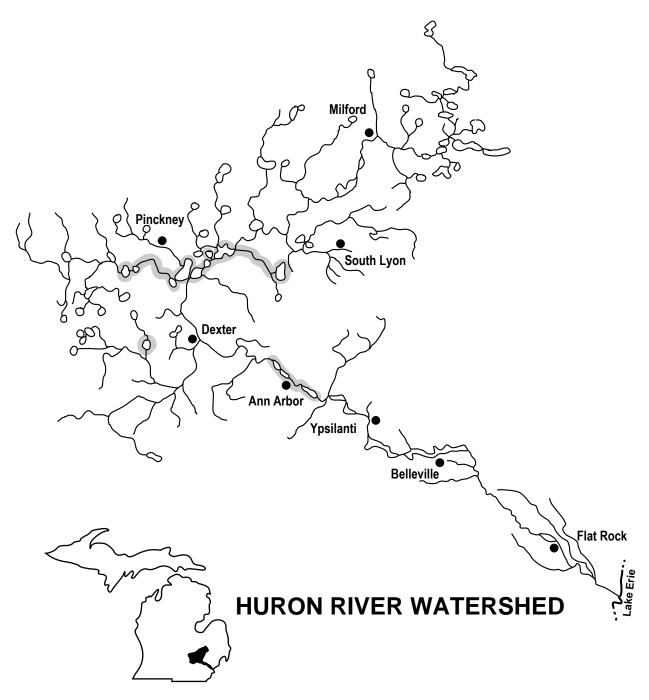


Warmouth (Lepomis gulosus)

Habitat:

feeding - clear lakes and impoundments and very low-gradient streams - abundant aquatic vegetation

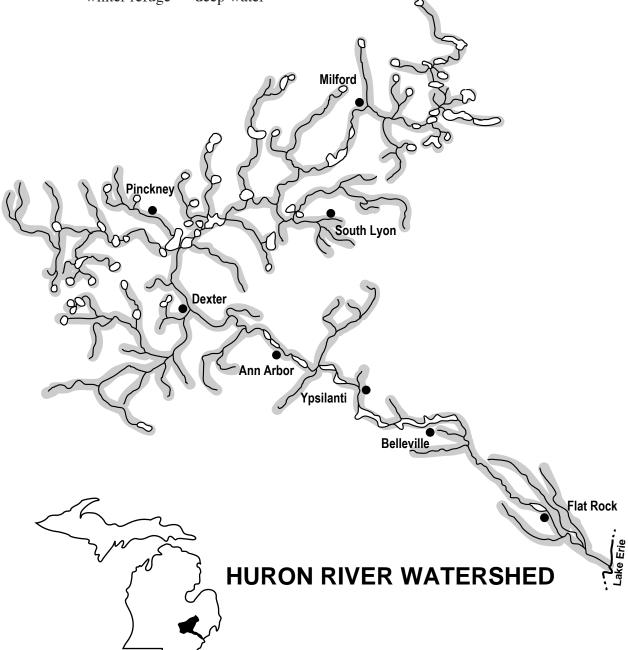
- silt-free water
- mucky substrate often covered with organic debris
- spawning nesting sites in loose silt, sand with silt, or rubble over silt near stumps, roots, or vegetation



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

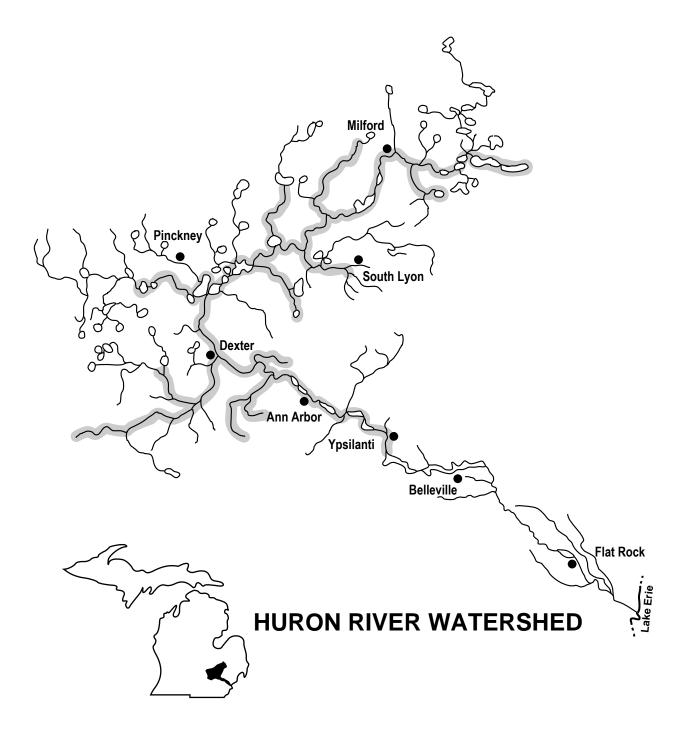


Longear sunfish (*Lepomis megalotis*)

Habitat:

feeding - clear moderate-sized shallow streams with moderate vegetation - rocky substrates

- little to no current
- spawning nests in gravel, sand, or hard rock substrate

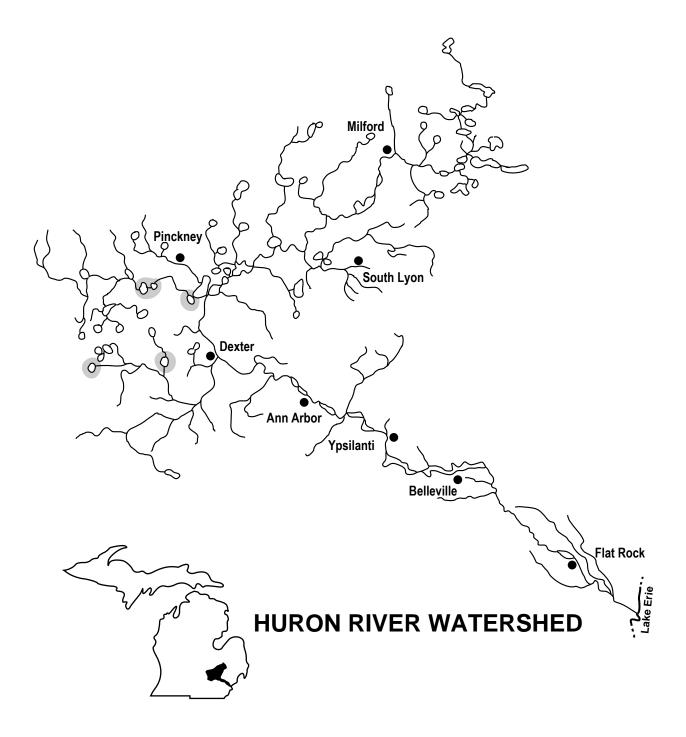


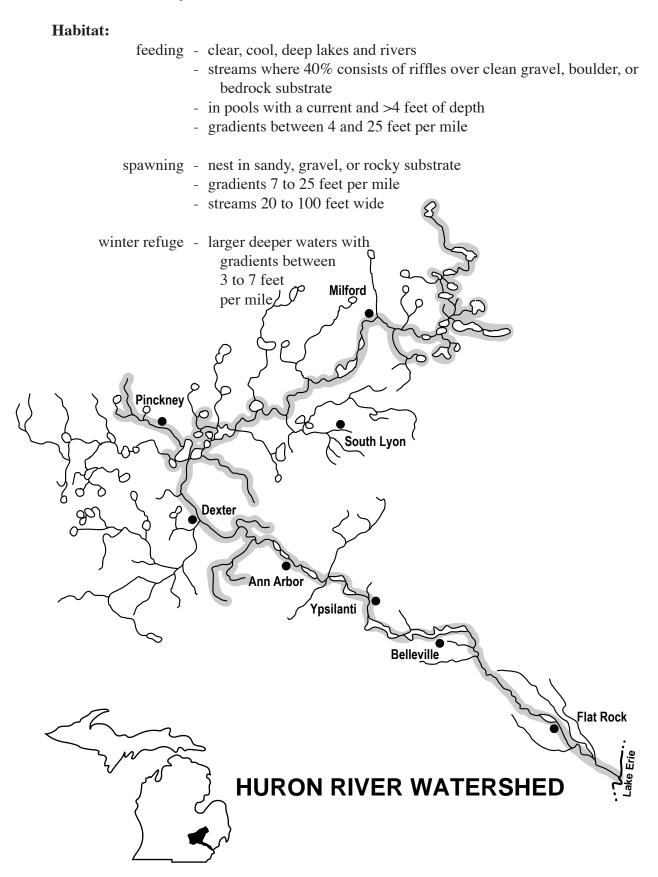
Redear sunfish (Lepomis microlophus)

Habitat:

feeding - non-flowing clear waters of streams and lakes - some aquatic vegetation

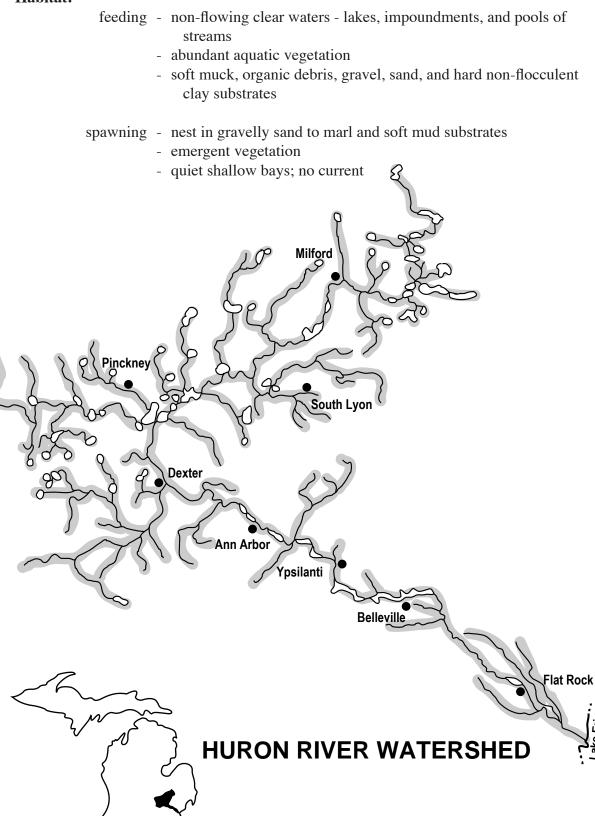
spawning - nest in silt or gravel substrate





Largemouth bass (Micropterus salmoides)

Habitat:

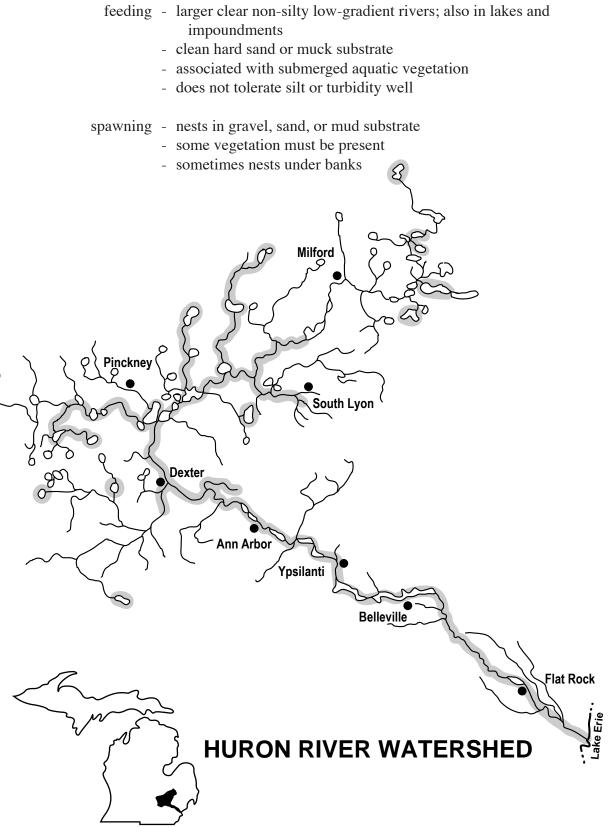


Erie

White crappie (Pomoxis annularis)

Habitat: feeding - lakes and impoundments >5 acres - sluggish pools of moderate to large low-gradient rivers - no substrate preference - can tolerate severe turbidity and rapid siltation spawning - various substrates usually beside rooted aquatic vegetation - sometimes under banks	
Pinckney Pinckn	
HURON RIVER WATERSHED	Lake Erie

Black crappie (*Pomoxis nigromaculatus*)

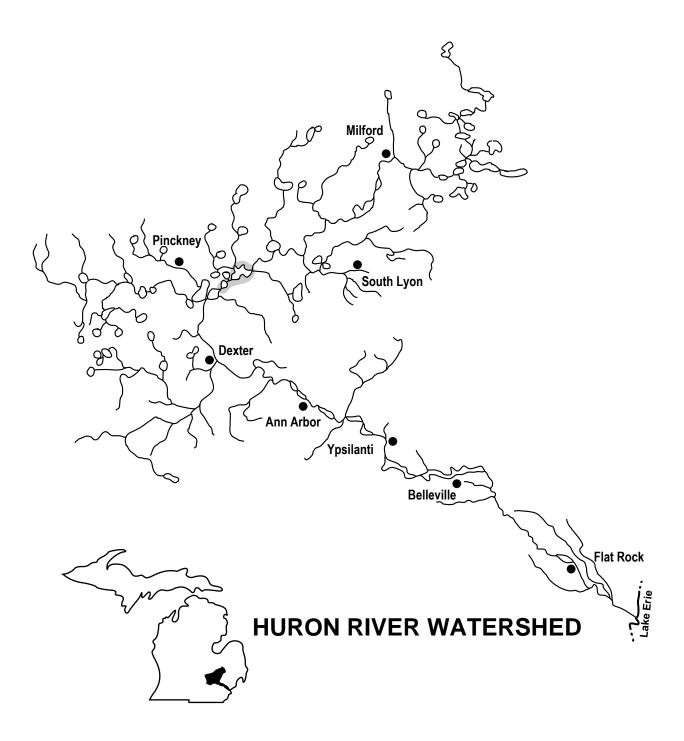


Eastern sand darter (Ammocrypta pellucida) - threatened

Habitat:

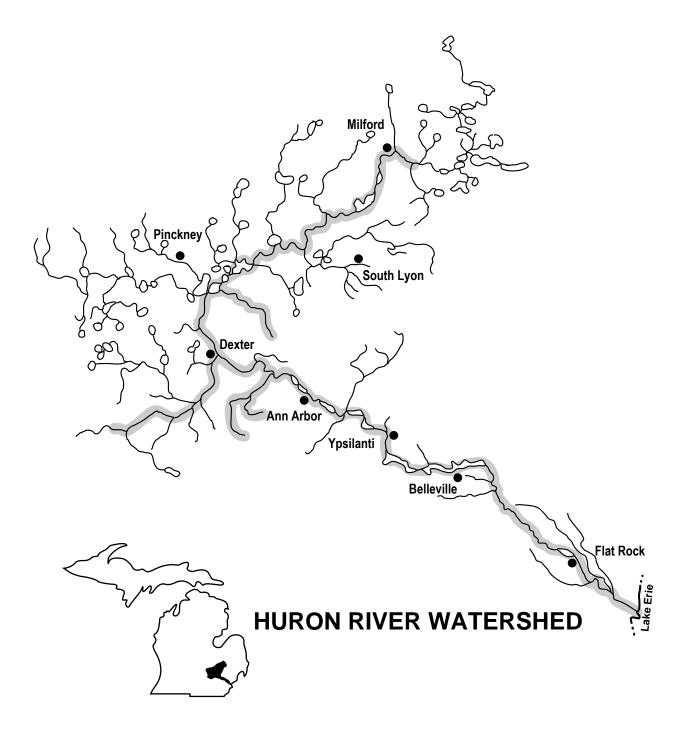
feeding - sandy substrate in clear streams and lakes - does not tolerate silt well

spawning - sandy substrate



Greenside darter (Etheostoma blennioides)

- feeding young: in quiet water
 - swift gravelly riffles or pools with current of streams and rivers
- spawning filamentous algae necessary for egg deposition

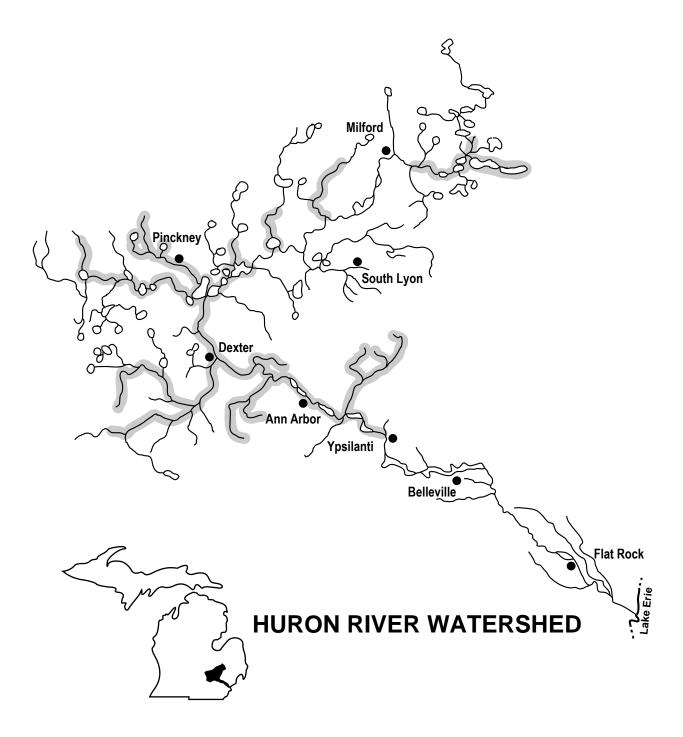


Rainbow darter (Etheostoma caeruleum)

Habitat:

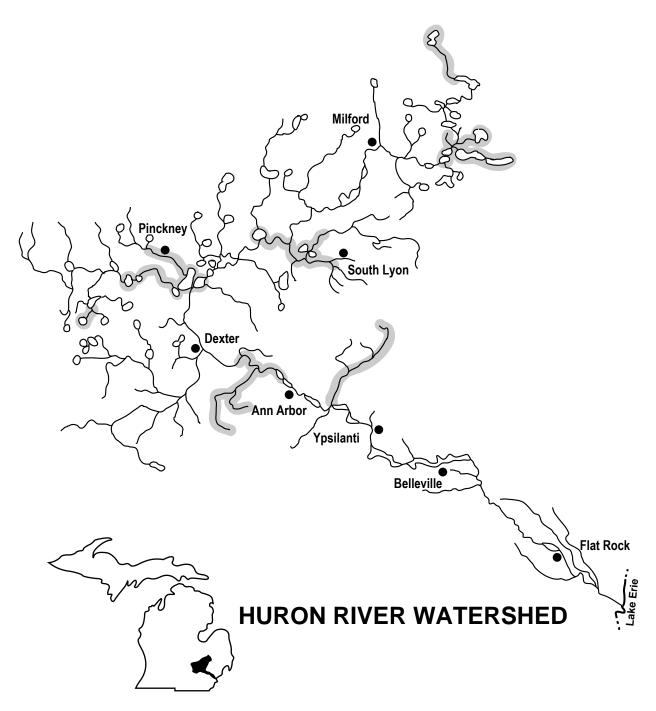
feeding - gravelly high gradient riffles

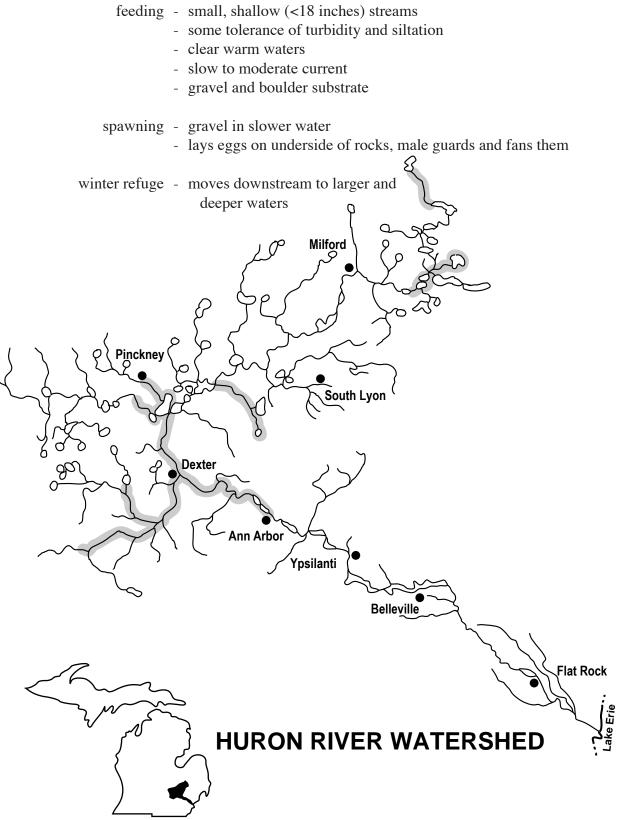
- clear, moderate to large streams
- in shallows (average 1 foot)
- spawning gravel or rubble riffles



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 rootsin shallows





Least darter (*Etheostoma microperca*)

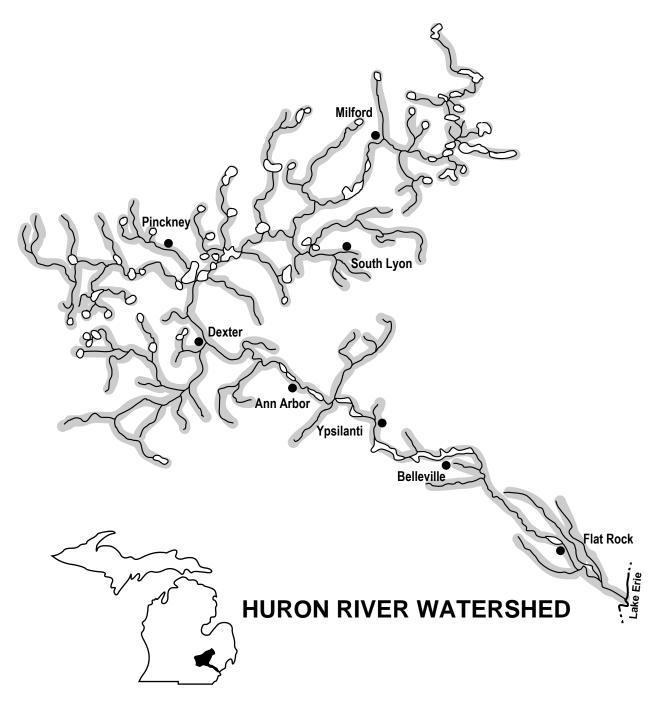
	 ding - moderate to warm temperature clear quiet low-gradient vegetated streams (wetlands, floodplains) soft substrate ning - spawning occurs on stems of plants male guards a territory in a vegetated area
	exney Dexter Ann Arbor Ypsilanti Belleville
< Company of the second	HURON RIVER WATERSHED
<u>)</u>	

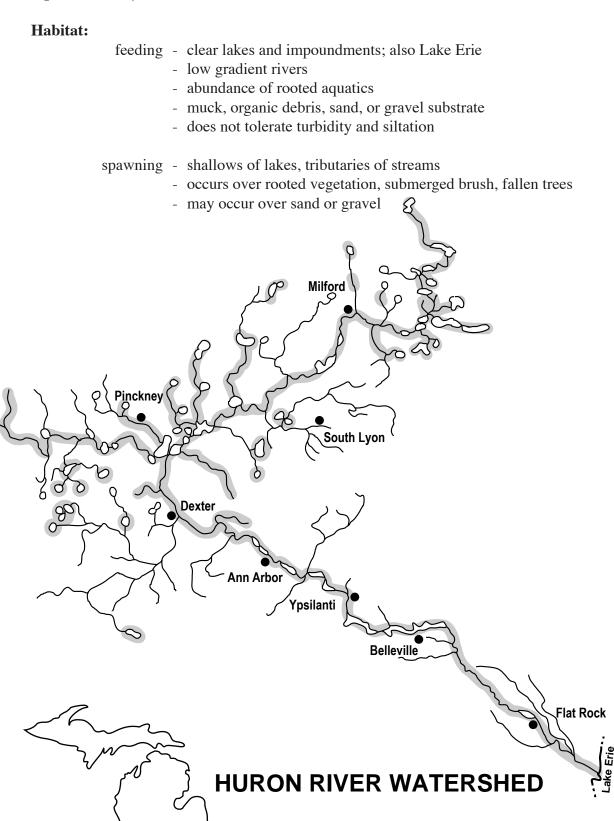
Johnny darter (Etheostoma nigrum)

Habitat:

feeding - sand and silt substrate

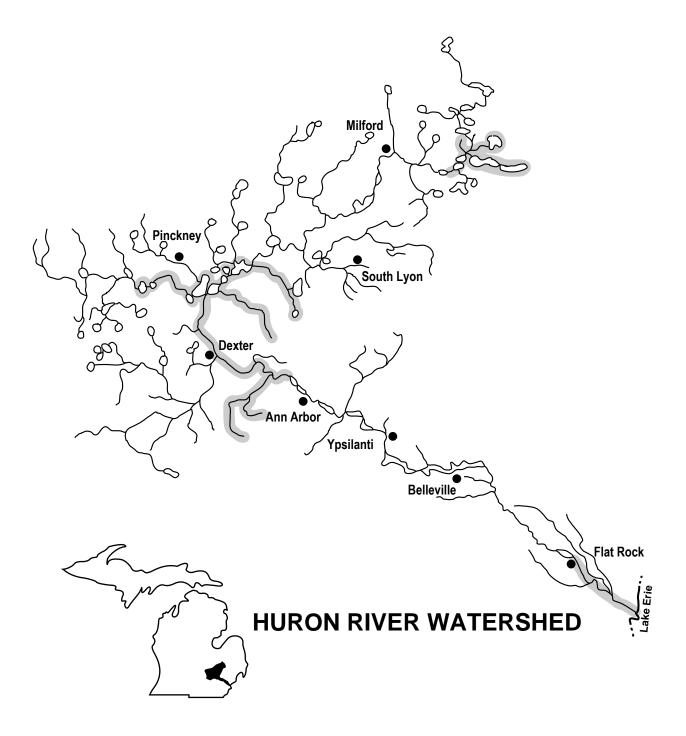
- little to moderate current
- shallow areas of streams, rivers, lakes, and impoundments
- tolerant of many organic and inorganic pollutants and turbidity
- spawning underneath rocks
 - in stream pools or protected shallows of lakes





feeding - gravel riffles, deeper slower sections of rivers

- medium size streams; also lakes, impoundments, and Lake Erie
 - sand, gravel, or rock substrate
 - avoids turbidity and silt
- spawning riffles or sandy in-shore shallows



Channel darter (Percina copelandi) - locally extirpated

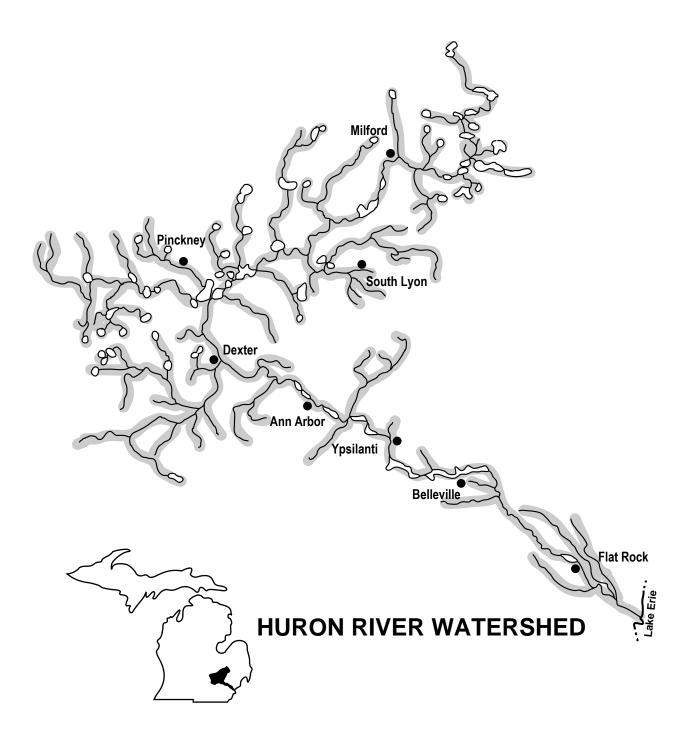
feeding - sand and gravel bars - slow current - large rivers and Lake Erie spawning - some current is essential - a territory is established over gravel
Pinckney Pin
HURON RIVER WATERSHED

Blackside darter (Percina maculata)

Habitat:

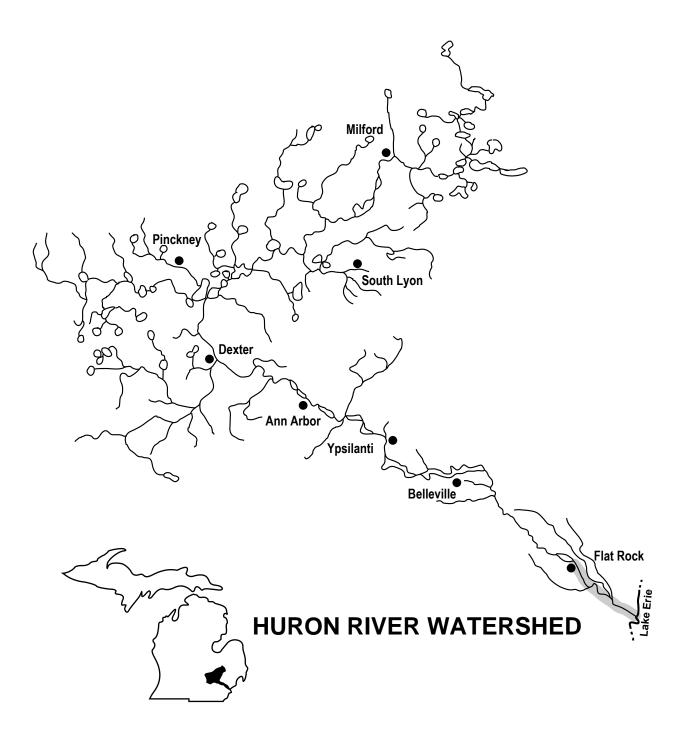
feeding - small to medium streams

- low to medium gradient
- gravel and sand substrate
- tolerate some turbidity
- spawning gravel and sand substrate



River darter (Percina schumardi) - believed locally extirpated

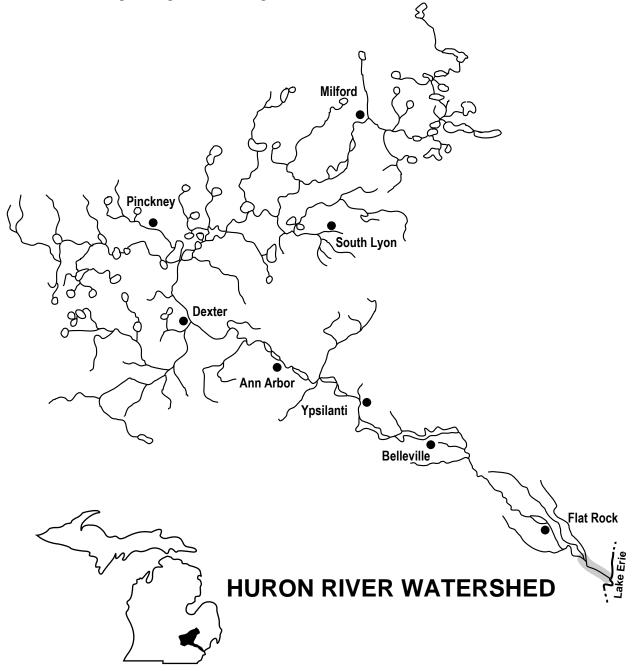
- feeding medium to large rivers
 - moderate to swift current
 - coarse rock rubble or boulder-strewn substrate
 - can tolerate turbidity

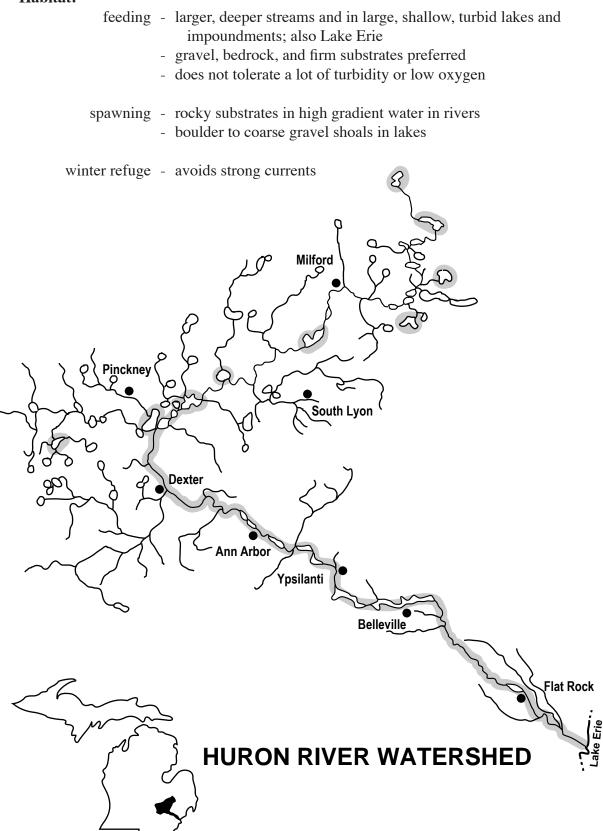


feeding - larger, deeper, low gradient rivers; turbid lakes and impoundments; also Lake Erie

- not tolerant of high gradient
- tolerant of silted substrate
- more tolerant of turbid water than walleye
- young may be in shallows or flats

spawning - shoals of gravel and rubble





Freshwater drum (Aplodinotus grunniens)

- feeding deeper pools of rivers and Lake Erie
 - in shallows
 - prefers clear waters and clean substrates
 - can adapt to high turbidity levels
- spawning pelagically, in open water, over sand or mud substrateoccurs in bays or lower portions of marshes

