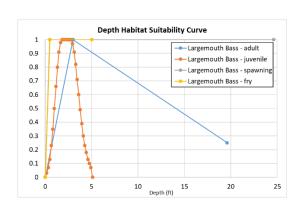
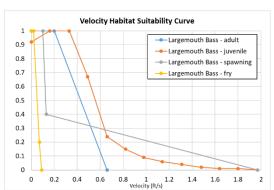


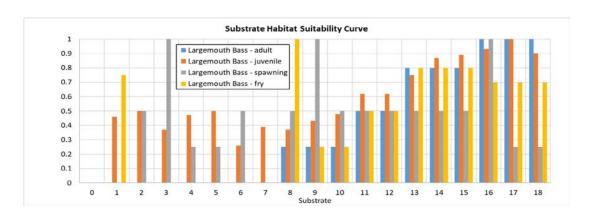
## LARGEMOUTH BASS (ADULT/JUVENILE/SPAWNING/FRY) MICROPTERUS SALMOIDES



#### **Physical Habitat**







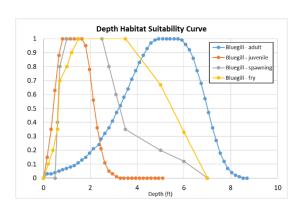
_		_			
	Substrate Coding				
1	No cover and silt or terrestrial vegetation	10	Overhead vegetation and cobble		
2	No cover and sand	11	Overhead vegetation and small boulder, boulder, angled bedrock, or woody debris		
3	No cover and gravel	12	Instream cover and cobble		
4	No cover and cobble	13	Instream cover and small boulder, boulder, angles bedrock, or woody debris		
Ē	No cover and small boulder	14	Proximal instream cover and cobble		
6	No cover and boulder, angles bedrock or woody debris	15	Proximal instream cover and small boulder, boulder, angles bedrock, or woody debris		
7	No cover and mud or flat bedrock	16	Instream cover or proximal instream cover and gravel		
8	Overhead vegetation and terrestrial vegetation	17	Overhead vegetation or instream cover or proximal instream cover and silt or sand		
9	Overhead vegetation and gravel	18	Aquatic vegetation - macrophytes		

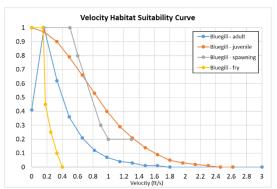


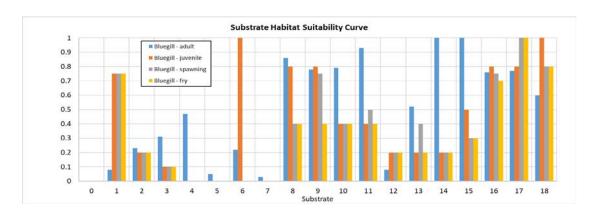
## BLUEGILL (ADULT/JUVENILE/SPAWNING/FRY) LEPOMIS MACROCHIRUS



#### **Physical Habitat**







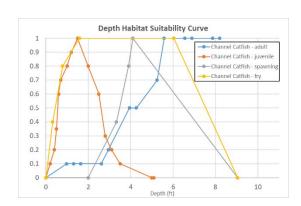
		_	I .			
L	Substrate Coding					
1	No cover and silt or terrestrial vegetation	10	Overhead vegetation and cobble			
2	No cover and sand	11	Overhead vegetation and small boulder, boulder, angled bedrock, or woody debris			
3	No cover and gravel	12	Instream cover and cobble			
4	No cover and cobble	13	Instream cover and small boulder, boulder, angles bedrock, or woody debris			
5	No cover and small boulder	14	Proximal instream cover and cobble			
6	No cover and boulder, angles bedrock or woody debris	15	Proximal instream cover and small boulder, boulder, angles bedrock, or woody debris			
7	No cover and mud or flat bedrock	16	Instream cover or proximal instream cover and gravel			
8	Overhead vegetation and terrestrial vegetation	17	Overhead vegetation or instream cover or proximal instream cover and silt or sand			
9	Overhead vegetation and gravel	18	Aquatic vegetation - macrophytes			

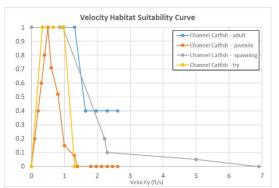


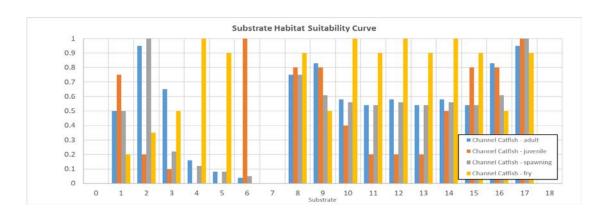
# CHANNEL CATFISH (ADULT/JUVENILE/SPAWNING/FRY) ICTALURUS PUNCTATUS



#### **Physical Habitat**







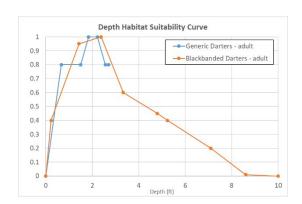
regetation 10		Substrate Coding
regetation 10		
0	LO	Overhead vegetation and cobble
1:	11	Overhead vegetation and small boulder, boulder, angled bedrock, or woody debris
12	12	Instream cover and cobble
13	13	Instream cover and small boulder, boulder, angles bedrock, or woody debris
14	۱4	Proximal instream cover and cobble
edrock or woody debris 15	15	Proximal instream cover and small boulder, boulder, angles bedrock, or woody debris
ock 16	16	Instream cover or proximal instream cover and gravel
strial vegetation 1	١7	Overhead vegetation or instream cover or proximal instream cover and silt or sand
1	18	Aquatic vegetation - macrophytes
	edrock or woody debris 2 ock strial vegetation 1	12 13 14 edrock or woody debris 15 ock 16 strial vegetation 17

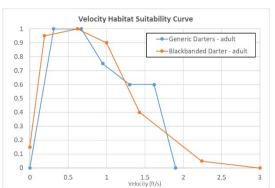


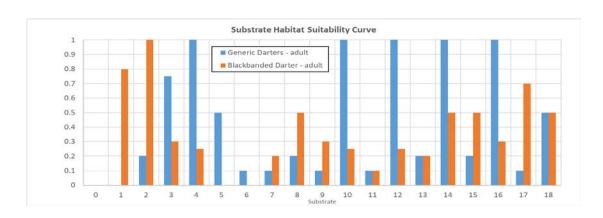
## DARTERS (GENERIC/BLACKBANDED) PERCINA NIGROFASCIATA



### Physical Habitat







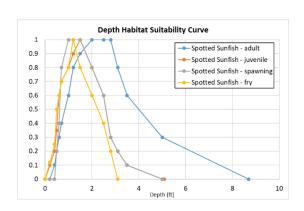
	Substrate Coding					
1	No cover and silt or terrestrial vegetation	10	Overhead vegetation and cobble			
2	No cover and sand	11	Overhead vegetation and small boulder, boulder, angled bedrock, or woody debris			
3	No cover and gravel	12	Instream cover and cobble			
4	No cover and cobble	13	Instream cover and small boulder, boulder, angles bedrock, or woody debris			
5	No cover and small boulder	14	Proximal instream cover and cobble			
6	No cover and boulder, angles bedrock or woody debris	15	Proximal instream cover and small boulder, boulder, angles bedrock, or woody debris			
7	No cover and mud or flat bedrock	16	Instream cover or proximal instream cover and gravel			
8	Overhead vegetation and terrestrial vegetation	17	Overhead vegetation or instream cover or proximal instream cover and silt or sand			
9	Overhead vegetation and gravel	18	Aquatic vegetation - macrophytes			

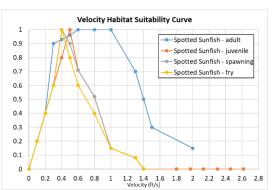


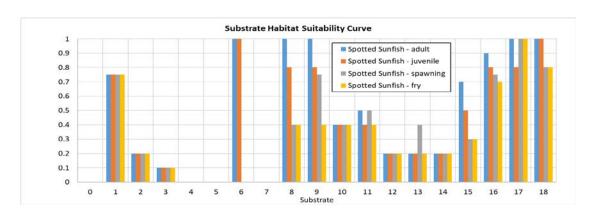
## SPOTTED SUNFISH (ADULT/JUVENILE/SPAWNING/FRY) LEPOMIS PUNCTATUS



#### **Physical Habitat**







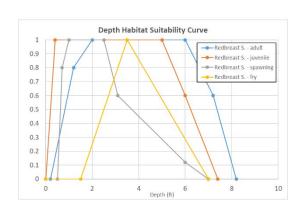
	Substrate Coding					
1	No cover and silt or terrestrial vegetation	10	Overhead vegetation and cobble			
2	No cover and sand	11	Overhead vegetation and small boulder, boulder, angled bedrock, or woody debris			
3	No cover and gravel	12	Instream cover and cobble			
4	No cover and cobble	13	Instream cover and small boulder, boulder, angles bedrock, or woody debris			
5	No cover and small boulder	14	Proximal instream cover and cobble			
6	No cover and boulder, angles bedrock or woody debris	15	Proximal instream cover and small boulder, boulder, angles bedrock, or woody debris			
7	No cover and mud or flat bedrock	16	Instream cover or proximal instream cover and gravel			
8	Overhead vegetation and terrestrial vegetation	17	Overhead vegetation or instream cover or proximal instream cover and silt or sand			
9	Overhead vegetation and gravel	18	Aquatic vegetation - macrophytes			

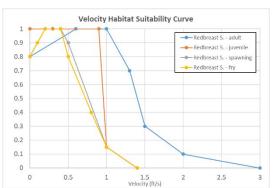


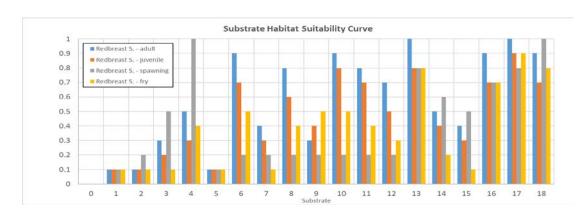
## REDBREAST SUNFISH (ADULT/JUVENILE/SPAWNING/FRY) LEPOMIS AURITUS



#### **Physical Habitat**







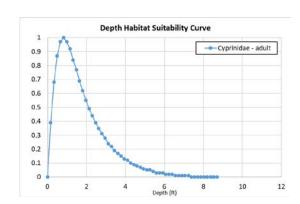
	Substrate Coding					
1	No cover and silt or terrestrial vegetation	10	Overhead vegetation and cobble			
2	No cover and sand	11	Overhead vegetation and small boulder, boulder, angled bedrock, or woody debris			
3	No cover and gravel	12	Instream cover and cobble			
4	No cover and cobble	13	Instream cover and small boulder, boulder, angles bedrock, or woody debris			
5	No cover and small boulder	14	Proximal instream cover and cobble			
6	No cover and boulder, angles bedrock or woody debris	15	Proximal instream cover and small boulder, boulder, angles bedrock, or woody debris			
7	No cover and mud or flat bedrock	16	Instream cover or proximal instream cover and gravel			
8	Overhead vegetation and terrestrial vegetation	17	Overhead vegetation or instream cover or proximal instream cover and silt or sand			
9	Overhead vegetation and gravel	18	Aquatic vegetation - macrophytes			

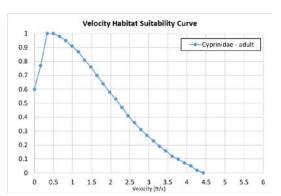


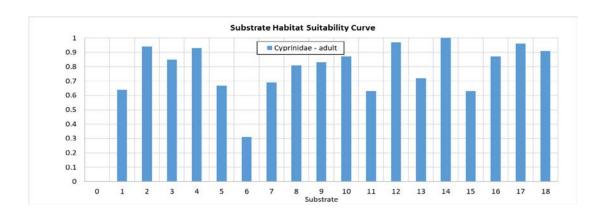
#### CYPRINIDAE - ADULT



### **Physical Habitat**





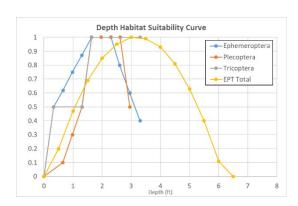


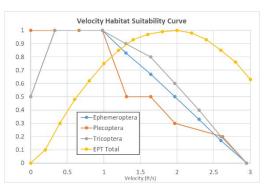
	Substrate Coding					
1	No cover and silt or terrestrial vegetation	10	Overhead vegetation and cobble			
2	No cover and sand	11	Overhead vegetation and small boulder, boulder, angled bedrock, or woody debris			
3	No cover and gravel	12	Instream cover and cobble			
4	No cover and cobble	13	Instream cover and small boulder, boulder, angles bedrock, or woody debris			
5	No cover and small boulder	14	Proximal instream cover and cobble			
6	No cover and boulder, angles bedrock or woody debris	15	Proximal instream cover and small boulder, boulder, angles bedrock, or woody debris			
7	No cover and mud or flat bedrock	16	Instream cover or proximal instream cover and gravel			
8	Overhead vegetation and terrestrial vegetation	17	Overhead vegetation or instream cover or proximal instream cover and silt or sand			
9	Overhead vegetation and gravel	18	Aquatic vegetation - macrophytes			
6 7 8	No cover and boulder, angles bedrock or woody debris No cover and mud or flat bedrock Overhead vegetation and terrestrial vegetation	15 16 17	Proximal instream cover and small boulder, boulder, angles bedrock, or values are cover or proximal instream cover and gravel  Overhead vegetation or instream cover or proximal instream cover and s			

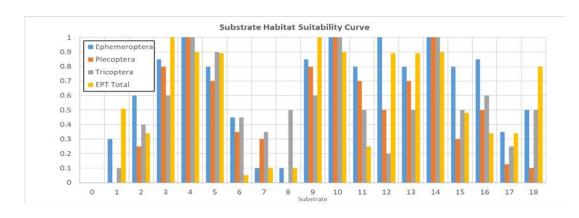


### EPHEMEROPTERA / PLECOPTERA / TRICHOPTERA / EPT TOTAL BENTHIC MACROINVERTEBRATE COMMUNITY

### **Physical Habitat**







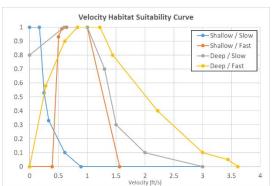
	Substrate Coding					
1	No cover and silt or terrestrial vegetation	10	Overhead vegetation and cobble			
2	No cover and sand	11	Overhead vegetation and small boulder, boulder, angled bedrock, or woody debris			
3	No cover and gravel	12	Instream cover and cobble			
4	No cover and cobble	13	Instream cover and small boulder, boulder, angles bedrock, or woody debris			
5	No cover and small boulder	14	Proximal instream cover and cobble			
6	No cover and boulder, angles bedrock or woody debris	15	Proximal instream cover and small boulder, boulder, angles bedrock, or woody debris			
7	No cover and mud or flat bedrock	16	Instream cover or proximal instream cover and gravel			
8	Overhead vegetation and terrestrial vegetation	17	Overhead vegetation or instream cover or proximal instream cover and silt or sand			
9	Overhead vegetation and gravel	18	Aquatic vegetation - macrophytes			

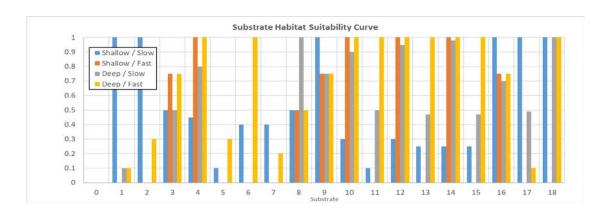


### HABITAT GUILDS (SHALLOW SLOW / SHALLOW FAST / DEEP SLOW / DEEP FAST)

### **Physical Habitat**







	Substrate Coding					
1	No cover and silt or terrestrial vegetation	10	Overhead vegetation and cobble			
2	No cover and sand	11	Overhead vegetation and small boulder, boulder, angled bedrock, or woody debris			
3	No cover and gravel	12	Instream cover and cobble			
4	No cover and cobble	13	Instream cover and small boulder, boulder, angles bedrock, or woody debris			
5	No cover and small boulder	14	Proximal instream cover and cobble			
6	No cover and boulder, angles bedrock or woody debris	15	Proximal instream cover and small boulder, boulder, angles bedrock, or woody debris			
7	No cover and mud or flat bedrock	16	Instream cover or proximal instream cover and gravel			
8	Overhead vegetation and terrestrial vegetation	17	Overhead vegetation or instream cover or proximal instream cover and silt or sand			
9	Overhead vegetation and gravel	18	Aquatic vegetation - macrophytes			

