



Big Creek Downstream of Pearl Road
6/24/2024 2:55:00 PM
River Mile: 9.80
Collection Method: Longline Electrofishing
Drainage Area: 5.7 square miles
0.15 km
IBI Type: Headwaters

Code	Species	No.	Pollution Tolerance	DELT Anomalies	# Description
40-016	<i>Catostomus commersonii</i> Common white sucker	26	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	132	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	152	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	284	--	0	--
Totals		594		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 32 (Fair)



Big Creek Downstream of Pearl Road
9/11/2024 11:15:00 AM
River Mile: 9.80
Collection Method: Longline Electrofishing
Drainage Area: 5.7 square miles
0.15 km
IBI Type: Headwaters

Code	Species	No.	Pollution Tolerance	DELT Anomalies	# Description
40-016	<i>Catostomus commersonii</i> Common white sucker	29	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	298	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	284	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	299	--	0	--
Totals		910		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 28 (Fair)



Big Creek Memphis Picnic Area, US of West Branch
 Confluence (Site 26)
 6/28/2024 11:30:00 AM
 River Mile: 4.40
 Collection Method: Longline Electrofishing
 Drainage Area: 19.3 square miles
 0.15 km
 IBI Type: Headwaters

Code	Species	No.	Pollution Tolerance	#	DELT Anomalies Description
40-016	<i>Catostomus commersonii</i> Common white sucker	5	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	110	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	194	Tolerant	0	--
43-033	<i>Notropis dorsalis</i> Bigmouth shiner	22	--	0	--
43-034	<i>Notropis stramineus</i> Sand shiner	18	Moderately Intolerant	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	5	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	245	--	0	--
77-008	<i>Lepomis cyanellus</i> Green sunfish	1	Tolerant	0	--
Totals		600		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 26 (Poor)



Big Creek Memphis Picnic Area, US of West Branch
Confluence (Site 26)
8/22/2024 10:10:00 AM
River Mile: 4.40
Collection Method: Longline Electrofishing
Drainage Area: 19.3 square miles
0.15 km
IBI Type: Headwaters

Code	Species	No.	Pollution Tolerance	#	DELT Anomalies Description
40-016	<i>Catostomus commersonii</i> Common white sucker	32	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	105	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	138	Tolerant	0	--
43-033	<i>Notropis dorsalis</i> Bigmouth shiner	29	--	0	--
43-034	<i>Notropis stramineus</i> Sand shiner	4	Moderately Intolerant	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	68	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	399	--	0	--
47-004	<i>Ictalurus natalis</i> Yellow bullhead	2	Tolerant	0	--
77-009	<i>Lepomis macrochirus</i> Bluegill sunfish	1	Moderately Tolerant	0	--
Totals		778		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 34 (Fair)



Big Creek RM 2.40 Downstream of John Nagy Drop
 Structure
 9/6/2024 12:00:00 PM
 River Mile: 2.40
 Collection Method: Longline Electrofishing
 Drainage Area: 33.8 square miles
 0.20 km
 IBI Type: Wading

Code	Species	No.	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-016	<i>Catostomus commersonii</i> Common white sucker	55	0.44	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	110	0.2990	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	230	2.0750	Tolerant	0	--
43-033	<i>Notropis dorsalis</i> Bigmouth shiner	14	0.02	--	0	--
43-034	<i>Notropis stramineus</i> Sand shiner	1	0.0030	Moderately Intolerant	0	--
43-042	<i>Pimephales promelas</i> Northern fathead minnow	1	0.0030	Tolerant	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	155	0.3330	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	906	3.9290	--	0	--
47-004	<i>Ictalurus natalis</i> Yellow bullhead	4	0.0180	Tolerant	0	--
Totals		1476	7.1200		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 26 (Poor)

Modified Index of Well-Being (MIwb) = 6.9 (Fair)

Shannon Diversity Index, no. 1.21

Shannon Diversity Index, wt. 1.17

N = 1381.50

B = 5.93



Big Creek RM 2.40 Downstream of John Nagy Drop
 Structure
 10/11/2024 3:15:00 PM
 River Mile: 2.40
 Collection Method: Longline Electrofishing
 Drainage Area: 33.8 square miles
 0.20 km
 IBI Type: Wading

Code	Species	No.	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-016	<i>Catostomus commersonii</i> Common white sucker	30	0.14	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	92	0.25	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	130	0.8570	Tolerant	0	--
43-033	<i>Notropis dorsalis</i> Bighmouth shiner	63	0.1380	--	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	119	0.2360	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	801	3.5860	--	0	--
47-004	<i>Ictalurus natalis</i> Yellow bullhead	1	0.01	Tolerant	0	--
Totals		1236	5.2170		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 26 (Poor)

Modified Index of Well-Being (MIwb) = 6.7 (Fair)

Shannon Diversity Index, no. 1.18

Shannon Diversity Index, wt. 1.05

N = 1296

B = 5.59



Big Creek DS From Jennings Rd. (Site 25)
 8/15/2024 10:45:00 AM
 River Mile: 0.15
 Collection Method: Boat Electrofishing
 Drainage Area: 37.10 square miles
 0.25 km
 IBI Type: Boat

Code	Species	No.	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-010	<i>Moxostoma erythrurum</i> Golden redhorse	1	0.0150	Moderately Intolerant	0	--
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	1	0.15	Moderately Intolerant	0	--
40-016	<i>Catostomus commersonii</i> Common white sucker	15	0.55	Tolerant	0	--
40-018	<i>Minytrema melanops</i> Spotted sucker	2	0.07	--	0	--
43-020	<i>Notropis atherinoides</i> Common emerald shiner	4	0.0310	--	0	--
43-026	<i>Notropis cornutus</i> Common shiner	1	0.0220	--	0	--
43-034	<i>Notropis stramineus</i> Sand shiner	1	0.0030	Moderately Intolerant	0	--
43-039	<i>Ericymba buccata</i> Silverjaw minnow	1	0.0040	--	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	38	0.05	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	1	0.02	--	0	--
47-004	<i>Ictalurus natalis</i> Yellow bullhead	3	0.3650	Tolerant	1	Lesions
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	1	0.0250	Moderately Intolerant	0	--
77-006	<i>Micropterus salmoides</i> Largemouth bass	7	0.12	--	0	--
77-008	<i>Lepomis cyanellus</i> Green sunfish	2	0.07	Tolerant	0	--
77-009	<i>Lepomis macrochirus</i> Bluegill sunfish	2	0.0750	Moderately Tolerant	0	--
80-011	<i>Percina caprodes</i> Northern logperch darter	4	0.0450	Moderately Intolerant	0	--
87-001	<i>Neogobius melanostomus</i> Round goby	9	0.0450	--	0	--



Big Creek DS From Jennings Rd. (Site 25)
8/15/2024 10:45:00 AM
River Mile: 0.15
Collection Method: Boat Electrofishing
Drainage Area: 37.10 square miles
0.25 km
IBI Type: Boat

Totals	93	1.6600	1
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*DELT anomalies were observed on = 1.0 % of the fish collected

Index of Biotic Integrity (IBI) = 26 (Fair)

Modified Index of Well-Being (MIwb) = 6.9 (Fair)

Shannon Diversity Index, no. 2.05

Shannon Diversity Index, wt. 2.13

N = 104

B = 2.32



Big Creek DS From Jennings Rd. (Site 25)
 10/11/2024 9:45:00 AM
 River Mile: 0.15
 Collection Method: Boat Electrofishing
 Drainage Area: 37.10 square miles
 0.20 km
 IBI Type: Boat

Code	Species	No.	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
25-002	<i>Oncorhynchus mykiss</i> Rainbow trout	3	8.1650	--	0	--
40-010	<i>Moxostoma erythrurum</i> Golden redhorse	5	0.0480	Moderately Intolerant	0	--
40-016	<i>Catostomus commersonii</i> Common white sucker	18	0.2050	Tolerant	0	--
40-018	<i>Minytrema melanops</i> Spotted sucker	1	0.01	--	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	1	0.0040	Tolerant	0	--
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	2	0.0090	--	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	20	0.0190	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	8	0.07	--	0	--
47-004	<i>Ictalurus natalis</i> Yellow bullhead	5	0.14	Tolerant	0	--
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	1	0.01	Moderately Intolerant	0	--
77-006	<i>Micropterus salmoides</i> Largemouth bass	2	0.0620	--	0	--
77-009	<i>Lepomis macrochirus</i> Bluegill sunfish	2	0.0080	Moderately Tolerant	0	--
80-011	<i>Percina caprodes</i> Northern logperch darter	2	0.02	Moderately Intolerant	0	--
80-015	<i>Etheostoma blenniodes</i> Greenside darter	1	0.0030	Moderately Intolerant	0	--
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	1	0.0020	Moderately Intolerant	0	--
87-001	<i>Neogobius melanostomus</i> Round goby	19	0.07	--	0	--
Totals		91	8.8450		0	

*DELT anomalies were observed on =



Big Creek DS From Jennings Rd. (Site 25)
10/11/2024 9:45:00 AM
River Mile: 0.15
Collection Method: Boat Electrofishing
Drainage Area: 37.10 square miles
0.20 km
IBI Type: Boat

	0	% of the fish collected
Index of Biotic Integrity (IBI) =	24	(Poor)
Modified Index of Well-Being (MIwb) =	5.2	(Poor)
Shannon Diversity Index, no.	2.21	
Shannon Diversity Index, wt.	0.43	
N =	125	
B =	1.21	



Big Creek Tributary at RM 7.78 (Snow & Pearl Branch)
 RM 0.20 - Upstream of Big Creek Prkway
 6/25/2024 11:30:00 AM
 River Mile: 0.20
 Collection Method: Longline Electrofishing
 Drainage Area: 2.5 square miles
 0.15 km
 IBI Type: Headwaters

Code	Species	No.	Pollution Tolerance	#	DELT Anomalies Description
40-016	<i>Catostomus commersonii</i> Common white sucker	92	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	94	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	252	Tolerant	0	--
43-042	<i>Pimephales promelas</i> Northern fathead minnow	2	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	146	--	0	--
47-004	<i>Ictalurus natalis</i> Yellow bullhead	1	Tolerant	0	--
77-008	<i>Lepomis cyanellus</i> Green sunfish	5	Tolerant	0	--
77-009	<i>Lepomis macrochirus</i> Bluegill sunfish	15	Moderately Tolerant	0	--
Totals		607		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 30 (Fair)



Big Creek Tributary at RM 7.78 (Snow & Pearl Branch)
 RM 0.20 - Upstream of Big Creek Prkway
 9/11/2024 1:00:00 PM
 River Mile: 0.20
 Collection Method: Longline Electrofishing
 Drainage Area: 2.5 square miles
 0.15 km
 IBI Type: Headwaters

Code	Species	No.	Pollution Tolerance	#	DELT Anomalies Description
40-016	<i>Catostomus commersonii</i> Common white sucker	30	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	62	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	237	Tolerant	0	--
43-042	<i>Pimephales promelas</i> Northern fathead minnow	14	Tolerant	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	17	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	128	--	0	--
47-004	<i>Ictalurus natalis</i> Yellow bullhead	2	Tolerant	0	--
77-006	<i>Micropterus salmoides</i> Largemouth bass	1	--	0	--
77-008	<i>Lepomis cyanellus</i> Green sunfish	5	Tolerant	0	--
77-009	<i>Lepomis macrochirus</i> Bluegill sunfish	3	Moderately Tolerant	0	--
Totals		499		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 34 (Fair)



Big Creek West Branch (Ford Branch) West Branch- DS of
 Memphis Ave
 6/28/2024 2:50:00 PM
 River Mile: 0.02
 Collection Method: Longline Electrofishing
 Drainage Area: 11.9 square miles
 0.11 km
 IBI Type: Headwaters

Code	Species	No.	Pollution Tolerance	#	DELT Anomalies Description
40-016	<i>Catostomus commersonii</i> Common white sucker	58	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	26	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	112	Tolerant	2	Deformities Lesions
43-033	<i>Notropis dorsalis</i> Bigmouth shiner	3	--	0	--
43-034	<i>Notropis stramineus</i> Sand shiner	7	Moderately Intolerant	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	18	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	197	--	0	--
47-004	<i>Ictalurus natalis</i> Yellow bullhead	1	Tolerant	0	--
77-008	<i>Lepomis cyanellus</i> Green sunfish	2	Tolerant	0	--
Totals		424		2	

*DELT anomalies were observed on = 0.4 % of the fish collected

 Index of Biotic Integrity (IBI) = 26 (Poor)



Big Creek West Branch (Ford Branch) West Branch- DS of
Memphis Ave
8/22/2024 11:25:00 AM
River Mile: 0.02
Collection Method: Longline Electrofishing
Drainage Area: 11.9 square miles
0.0850 km
IBI Type: Headwaters

Code	Species	No.	Pollution Tolerance	DELT Anomalies # Description
40-016	<i>Catostomus commersonii</i> Common white sucker	92	Tolerant	0 --
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	26	Tolerant	0 --
43-013	<i>Semotilus atromaculatus</i> Creek chub	102	Tolerant	0 --
43-033	<i>Notropis dorsalis</i> Bigmouth shiner	9	--	0 --
43-042	<i>Pimephales promelas</i> Northern fathead minnow	1	Tolerant	0 --
43-043	<i>Pimephales notatus</i> Bluntnose minnow	22	Tolerant	0 --
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	74	--	0 --
47-004	<i>Ictalurus natalis</i> Yellow bullhead	2	Tolerant	0 --
Totals		328		0

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 24 (Poor)



Stickney Creek RM 1.15 Upstream of Ridge Road
8/8/2024 10:15:00 AM
River Mile: 1.15
Collection Method: Longline Electrofishing
Drainage Area: 3.2 square miles
0.15 km
IBI Type: Headwaters

Code	Species	No.	Pollution Tolerance	DELT Anomalies # Description
40-016	<i>Catostomus commersonii</i> Common white sucker	122	Tolerant	0 --
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	45	Tolerant	0 --
43-013	<i>Semotilus atromaculatus</i> Creek chub	115	Tolerant	0 --
43-042	<i>Pimephales promelas</i> Northern fathead minnow	3	Tolerant	0 --
43-043	<i>Pimephales notatus</i> Bluntnose minnow	77	Tolerant	0 --
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	943	--	0 --
Totals		1305		0

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 38 (Marginally Good)



Stickney Creek RM 1.15 Upstream of Ridge Road
10/10/2024 10:30:00 AM
River Mile: 1.15
Collection Method: Longline Electrofishing
Drainage Area: 3.2 square miles
0.15 km
IBI Type: Headwaters

Code	Species	No.	Pollution Tolerance	DELT Anomalies	
				#	Description
40-016	<i>Catostomus commersonii</i> Common white sucker	144	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	30	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	81	Tolerant	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	216	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	2117	--	0	--
Totals		2588		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 34 (Fair)



Stickney Creek RM 0.50 Downstream of Radoan Road
10/10/2024 1:00:00 PM
River Mile: 0.50
Collection Method: Longline Electrofishing
Drainage Area: 4.45 square miles
0.15 km
IBI Type: Headwaters

Code	Species	No.	Pollution Tolerance	DELT Anomalies	
				#	Description
40-016	<i>Catostomus commersonii</i> Common white sucker	26	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	8	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	36	Tolerant	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	27	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	207	--	0	--
Totals		304		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 30 (Fair)



Stickney Creek RM 0.50 Downstream of Radoan Road
8/8/2024 12:15:00 PM
River Mile: 0.50
Collection Method: Longline Electrofishing
Drainage Area: 4.45 square miles
0.15 km
IBI Type: Headwaters

Code	Species	No.	Pollution Tolerance	DELT Anomalies	
				#	Description
40-016	<i>Catostomus commersonii</i> Common white sucker	150	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	106	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	180	Tolerant	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	216	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	536	--	0	--
Totals		1188		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 26 (Poor)