

Tinkers Creek Upstream of Northfield Road
July 31, 2017
River Mile: 7.00
Collection Method: Longline Electrofishing
Drainage Area: 78.6 miles²
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	DELT Anomalies #	Description
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	17	2.5	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	15	2.835	Highly Tolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	8	0.03	Highly Tolerant	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	2	0.18	Highly Tolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	12	0.64	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	30	3.8	Moderately Intolerant	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	19	0.45	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	12	0.028	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	6	0.012	Moderately Tolerant	0	---
Totals		<u>121</u>	<u>10.475</u>		<u>0</u>	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	34	(Marginally Good)
Modified Index of Well-Being (MIwb) =	7.1	(Fair)
Shannon Diversity Index, no.	2.026	
Shannon Diversity Index, wt.	1.48	
N	115.5	
B	10.47	

Tinkers Creek Upstream of Northfield Road
September 8, 2017
River Mile: 7.00
Collection Method: Longline Electrofishing
Drainage Area: 78.6 miles²
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	DELT Anomalies #	Description
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	7	2.35	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	23	5.55	Highly Tolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	13	0.068	Highly Tolerant	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	2	0.021	Highly Tolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	4	0.18	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	66	3.175	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	3	0.045	--	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	8	0.17	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	8	0.125	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	2	0.02	Moderately Tolerant	0	---
Totals		<u>136</u>	<u>11.704</u>		<u>0</u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
 Index of Biotic Integrity (IBI) = 32 (Fair)
 Modified Index of Well-Being (MIwb) = 6.5 (Fair)
 Shannon Diversity Index, no. 1.674
 Shannon Diversity Index, wt. 1.278
 N 135
 B 8.843

Tinkers Creek Upstream of Dunham Road
July 28, 2017
River Mile: 2.25
Collection Method: Longline Electrofishing
Drainage Area: 93.9 miles²
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	6	1.048	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	3	0.155	Highly Tolerant	0	---
43-001	<i>Cyprinus carpio</i> Common carp	2	5.443	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	16	0.1	Highly Tolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	24	0.263	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	7	0.042	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	158	0.36	Moderately Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	20	0.05	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	276	1.908	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	4	0.429	Highly Tolerant	0	---
47-008	<i>Noturus flavus</i> Stonecat Madtom	3	0.108	Intolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	2	0.035	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	7	0.54	Moderately Intolerant	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	5	0.1	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	6	0.065	Moderately Tolerant	0	---

Tinkers Creek Upstream of Dunham Road

July 28, 2017

River Mile: 2.25

77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	1	0.003	Moderately Tolerant	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	86	0.049	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	68	0.118	Moderately Intolerant	0	---
	Totals	<u>694</u>	<u>10.816</u>		<u>0</u>	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	42	(Good)
Modified Index of Well-Being (MIwb) =	7.9	(Good)
Shannon Diversity Index, no.	1.826	
Shannon Diversity Index, wt.	1.724	
N	966	
B	6.809	

Tinkers Creek Upstream of Dunham Road
September 8, 2017
River Mile: 2.25
Collection Method: Longline Electrofishing
Drainage Area: 93.9 miles²
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	21	3.79	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	22	1.85	Highly Tolerant	0	---
43-011	<i>Rhinichthys atratulus</i> Western blacknose dace	13	0.021	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	25	0.149	Highly Tolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	153	2.288	--	1	Deformity
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	3	0.022	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	104	0.265	Moderately Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	4	0.031	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	227	2.34	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	3	0.09	Highly Tolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	1	0.03	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	24	1.481	Moderately Intolerant	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	6	0.12	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	2	0.032	Moderately Tolerant	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	72	0.38	Moderately Intolerant	0	---

Tinkers Creek Upstream of Dunham Road

September 8, 2017

River Mile: 2.25

80-022	<i>Etheostoma caeruleum</i> Rainbow darter	64	0.123	Moderately Intolerant	0	---
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Totals	<u>744</u>	<u>13.012</u>		<u>1</u>	
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*DELT anomalies were observed on	0.13	% of the fish collected.
Index of Biotic Integrity (IBI) =	44	(Good)
Modified Index of Well-Being (MIwb) =	8.8	(Good)
Shannon Diversity Index, no.	2.036	
Shannon Diversity Index, wt.	1.918	
N	1007	
B	16.13	

Tinkers Creek Upstream of Canal Road
July 28, 2017
River Mile: 0.15
Collection Method: Longline Electrofishing
Drainage Area: 96.3 miles²
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-011	<i>Moxostoma macrolepidotum</i> Shorthead redhorse	1	0.082	Moderately Intolerant	0	---
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	8	0.955	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	7	0.55	Highly Tolerant	0	---
43-003	<i>Notemigonus crysoleucas</i> Golden shiner	1	0.002	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	4	0.021	Highly Tolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	9	0.052	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	23	0.09	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	49	0.12	Moderately Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	3	0.02	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	11	0.035	--	0	---
47-002	<i>Ictalurus punctatus</i> Channel catfish	2	6.25	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	19	0.81	Highly Tolerant	0	---
47-008	<i>Noturus flavus</i> Stonecat Madtom	1	0.04	Intolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	3	0.048	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	8	0.631	Moderately Intolerant	0	---

**Tinkers Creek Upstream of Canal Road
July 28, 2017**

		River Mile:	0.15			
77-008	<i>Lepomis cyanellus</i> Green sunfish	19	0.29	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	9	0.045	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	1	0.008	Moderately Tolerant	0	---
80-011	<i>Percina caprodes</i> Northern logperch darter	2	0.042	Moderately Intolerant	0	---
80-014	<i>Etheostoma nigrum</i> Johnny darter	1	0.004	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	22	0.123	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	15	0.03	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	4	0.1	--	0	---
	Totals	<u>222</u>	<u>10.348</u>		<u>0</u>	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	42	(Good)
Modified Index of Well-Being (MIwb) =	8.2	(Good)
Shannon Diversity Index, no.	2.625	
Shannon Diversity Index, wt.	1.569	
N	247.5	
B	12.83	

Wood Creek Upstream of Button Road

7/31/2017

River Mile: 0.15

Collection Method: Longline Electrofishing

Drainage Area: 3.7 miles²

Collection Distance: 0.15 km

Code	Species	Number	Pollution Tolerance	DELT Anomalies #	Description
43-011	<i>Rhinichthys atratulus</i> Western blacknose dace	2	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	102	Highly Tolerant	0	---
	Totals	<u>104</u>		<u>0</u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
Index of Biotic Integrity (IBI) = 20 (Poor)

Wood Creek Upstream of Button Road
9/14/2017
River Mile: 0.15
Collection Method: Longline Electrofishing
Drainage Area: 3.7 miles²
Collection Distance: 0.15 km

Code	Species	Number	Pollution Tolerance	DELT Anomalies #	Description
43-013	<i>Semotilus atromaculatus</i> Creek chub	66	Highly Tolerant	0	---
	Totals	<u>66</u>		<u>0</u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
 Index of Biotic Integrity (IBI) = 20 (Poor)