

# FIBI037-R4r

## Drakes Brook

Old RR off N. 4 Bridges Road

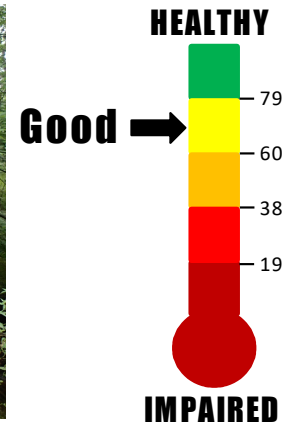
Municipality: Washington Twp

County: Morris

Drainage Area (sq miles): 16

Sample Date: 7 /31/2018

Site Type: Sentinel



### IBI Metrics

Metric 1-%Rheophilic Richness	99.24
Metric 2-%Cold Non-tolerant Coolwater	68.24
Metric 3-%Generalist Richness	70.82
Metric 4-Tolerance Index	89.63
Metric 5-%Lithophilic Richness	31.05
Metric 6-%Cyprinidae	14.22
Metric 7-%Dominant 3 Taxa	50.93
Metric 8-%Benthic Insectivore Richness	75.69

### Field Chemistry

Air Temp (°C)	20
Water Temperature (°C)	17.81
Dissolved Oxygen (mg/L)	8.4
% Saturation	89.1
pH	7.58
Conductivity (µS/cm)	596.5
Total Kjeldahl (mg/L)	0.32
Total Phosphorus (mg/L)	0.02
Nitrate/Nitrite (mg/L)	1.94

***Northern Fish IBI Score (0-100): 62.48***

***IBI Rating: Good***

***High Gradient Habitat Score (0-200): 160***

***Habitat Rating: Optimal***

**Summary:** Scores at this sentinel site on Drakes Brook have remained relatively consistent over the years. Despite the overall scores, the 2018 survey yielded the fewest number of wild trout (n=9) and slimy sculpin (n=9) over time at this site. In comparison, the 2013 and 2015 surveys resulted in the collection of 61 and 59 wild trout and 112 and 169 slimy sculpin in each respective years.

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## **Drakes Brook**

<b>Common Name</b>	<b>Scientific Name</b>	<b>Abundance</b>
Tessellated Darter	<i>Etheostoma olmstedii</i>	110
Redfin Pickerel	<i>Esox americanus americanus</i>	31
Longnose Dace	<i>Rhinichthys cataractae</i>	26
Redbreast Sunfish	<i>Lepomis auritus</i>	23
Blacknose Dace	<i>Rhinichthys atratulus</i>	18
Eastern Mudminnow	<i>Umbra pygmaea</i>	15
White Sucker	<i>Catostomus commersonii</i>	13
Brook Trout	<i>Salvelinus fontinalis</i>	9
Slimy Sculpin	<i>Cottus cognatus</i>	9
Bluegill	<i>Lepomis macrochirus</i>	8
Pumpkinseed	<i>Lepomis gibbosus</i>	6
Largemouth Bass	<i>Micropterus salmoides</i>	5
Chain Pickerel	<i>Esox niger</i>	3
Margined Madtom	<i>Noturus insignis</i>	2