

# FIBI055-R3

## Paulins Kill

Sipley Road

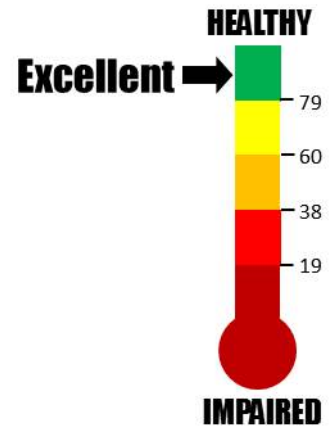
Municipality: Blainstown Twp

County: Warren

Drainage Area (sq miles):160

Sample Date: 08/21/2012

Site Type: Fixed



### IBI Metrics

Metric 1-%Rheophilic Richness	84.39
Metric 2-%Cold Non-tolerant Coolwater	100.00
Metric 3-%Generalist Richness	82.95
Metric 4-Tolerance Index	94.20
Metric 5-%Lithophilic Richness	68.63
Metric 6-%Cyprinidae	57.60
Metric 7-%Dominant 3 Taxa	74.47
Metric 8-%Benthic Insectivore Richness	69.71

### Field Chemistry

Air Temp (°C)	22.4
Water Temperature (°C)	20.22
Dissolved Oxygen (mg/L)	8.5
% Saturation	94.5
pH	7.48
Conductivity (µS/cm)	433

***Northern Fish IBI Score (0-100): 78.99***

***IBI Rating: Excellent***

***High Gradient Habitat Score (0-200): 145***

***Habitat Rating: Suboptimal***

**Summary:** The fish community at FIBI055 has been relatively consistent over time. This site is the largest river, in terms of drainage size, to receive an "excellent" IBI rating. Typically, landscape alternations or impacts from smaller tributaries become magnified at larger 5th order rivers, but Paulins Kill has maintained a healthy fish community which is likely a result of the low impervious cover and highly forested surrounding watershed.

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## **Paulins Kill**

<b>Common Name</b>	<b>Scientific Name</b>	<b>Abundance</b>
Tessellated Darter	<i>Etheostoma olmstedii</i>	133
Margined Madtom	<i>Noturus insignis</i>	66
Smallmouth Bass	<i>Micropterus dolomieu</i>	65
Redbreast Sunfish	<i>Lepomis auritus</i>	49
Common Shiner	<i>Luxilus cornutus</i>	49
White Sucker	<i>Catostomus commersoni</i>	47
Longnose Dace	<i>Rhinichthys cataractae</i>	45
American Eel	<i>Anguilla rostrata</i>	25
Rock Bass	<i>Ambloplites rupestris</i>	24
Shield Darter	<i>Percina peltata</i>	22
Cutlips Minnow	<i>Exoglossum maxillingua</i>	13
Largemouth Bass	<i>Micropterus salmoides</i>	12
Bluegill	<i>Lepomis macrochirus</i>	11
Yellow Bullhead	<i>Ameiurus natalis</i>	11
Fallfish	<i>Semotilus corporalis</i>	9
Creek Chub	<i>Semotilus atromaculatus</i>	1
Pumpkinseed	<i>Lepomis gibbosus</i>	1
Blacknose Dace	<i>Rhinichthys atratulus</i>	1
Satinfin Shiner	<i>Cyprinella analostana</i>	1