

# FIBI107-R4r

## Shimers Brook

Millville Road

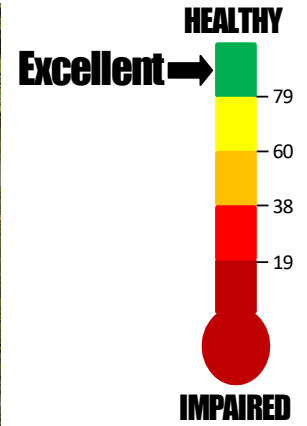
Municipality: Montague Twp

County: Sussex

Drainage Area (sq miles): 7

Sample Date: 8 /28/2019

Site Type: Sentinel



### Field Chemistry

IBI Metrics	
Metric 1-%Rheophilic Richness	100.00
Metric 2-%Cold Non-tolerant Coolwater	82.51
Metric 3-%Generalist Richness	100.00
Metric 4-Tolerance Index	73.26
Metric 5-%Lithophilic Richness	86.93
Metric 6-%Cyprinidae	89.56
Metric 7-%Dominant 3 Taxa	100.00
Metric 8-%Benthic Insectivore Richness	52.98

Air Temp (°C)	20.9
Water Temperature (°C)	19.30
Dissolved Oxygen (mg/L)	8.9
% Saturation	97.1
pH	7.59
Conductivity (µS/cm)	523.9
Total Kjeldahl (mg/L)	0.13
Total Phosphorus (mg/L)	0.02
Nitrate/Nitrite (mg/L)	0.15

***Northern Fish IBI Score (0-100): 85.65***

***IBI Rating: Excellent***

***High Gradient Habitat Score (0-200): 171***

***Habitat Rating: Optimal***

**Summary:** The score and rating increased from "Good" in 2017 to "Excellent" in 2019. Despite the improvement in biotic integrity, the specific conductance continues to increase over time at this station which is located in a highly forested/protected region of the state.

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## **Shimers Brook**

<b>Common Name</b>	<b>Scientific Name</b>	<b>Abundance</b>
Blacknose Dace	<i>Rhinichthys atratulus</i>	274
American Eel	<i>Anguilla rostrata</i>	58
Longnose Dace	<i>Rhinichthys cataractae</i>	34
Black Crappie	<i>Pomoxis nigromaculatus</i>	1
Brown Trout	<i>Salmo trutta</i>	1