

FIBI107-R4

Shimers Brook

Millville Road

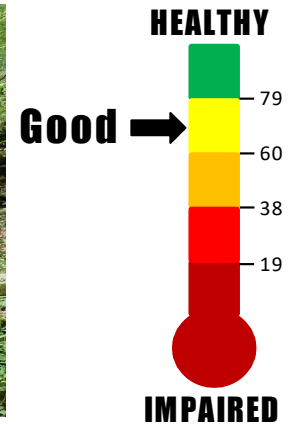
Municipality: Montague Twp

County: Sussex

Drainage Area (sq miles): 7

Sample Date: 7/13/2017

Site Type: Fixed



IBI Metrics

Metric 1-%Rheophilic Richness	100.00
Metric 2-%Cold Non-tolerant Coolwater	67.04
Metric 3-%Generalist Richness	56.43
Metric 4-Tolerance Index	60.02
Metric 5-%Lithophilic Richness	72.44
Metric 6-%Cyprinidae	71.93
Metric 7-%Dominant 3 Taxa	88.33
Metric 8-%Benthic Insectivore Richness	44.15

Field Chemistry

Air Temp (°C)	26.7
Water Temperature (°C)	22.37
Dissolved Oxygen (mg/L)	8.3
% Saturation	95.2
pH	8.02
Conductivity (µS/cm)	454.1
Total Kjeldahl (mg/L)	0.21
Total Phosphorus (mg/L)	0.02
Nitrate/Nitrite (mg/L)	0.27

Northern Fish IBI Score (0-100): 70.04

IBI Rating: Good

High Gradient Habitat Score (0-200): 171

Habitat Rating: Optimal

Summary: Despite "optimal" habitat and a highly forested watershed, only one adult brown trout was collected and scores were lower than expected for this site. Several upstream impoundments may have a negative impact on the resident fish assemblage, including impacts to the benthic insectivorous fish which had just one representative species.

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Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	196
American Eel	<i>Anguilla rostrata</i>	88
Longnose Dace	<i>Rhinichthys cataractae</i>	23
Redbreast Sunfish	<i>Lepomis auritus</i>	2
Brown Trout	<i>Salmo trutta</i>	1
White Sucker	<i>Catostomus commersoni</i>	1