

FIBI005-R4

Musconetcong River

New Hampton Road

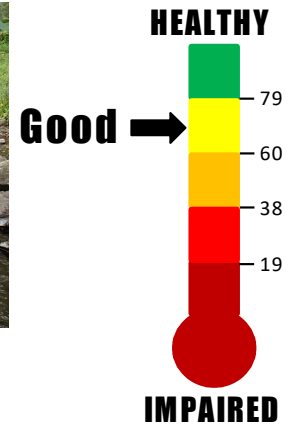
Municipality: Washington Twp

County: Hunterdon/Warren

Drainage Area (sq miles): 121

Sample Date: 8 /28/2017

Site Type: Fixed



IBI Metrics

Metric 1-%Rheophilic Richness	78.92
Metric 2-%Cold Non-tolerant Coolwater	65.21
Metric 3-%Generalist Richness	95.18
Metric 4-Tolerance Index	39.92
Metric 5-%Lithophilic Richness	78.02
Metric 6-%Cyprinidae	70.41
Metric 7-%Dominant 3 Taxa	33.67
Metric 8-%Benthic Insectivore Richness	81.51

Field Chemistry

Air Temp (°C)	23
Water Temperature (°C)	16.46
Dissolved Oxygen (mg/L)	10.0
% Saturation	101.5
pH	8.13
Conductivity (µS/cm)	613.4
Total Kjeldahl (mg/L)	0.29
Total Phosphorus (mg/L)	0.03
Nitrate/Nitrite (mg/L)	2.56

Northern Fish IBI Score (0-100): 67.86

IBI Rating: Good

High Gradient Habitat Score (0-200): 145

Habitat Rating: Suboptimal

Summary: Despite the "good" rating, scores have declined at FIBI005, mainly a result of the very high abundance of American eel. This tolerant fish species outnumbered all other fish combined. In addition, the conductivity in 2017 was almost 200 µS/cm higher than the first sampling event in 2000 and has steadily increased each year the site was sampled.

FIBI005-R4

Musconetcong River

Common Name	Scientific Name	Abundance
American Eel	<i>Anguilla rostrata</i>	514
Blacknose Dace	<i>Rhinichthys atratulus</i>	174
Longnose Dace	<i>Rhinichthys cataractae</i>	110
Tessellated Darter	<i>Etheostoma olmstedi</i>	72
Cutlips Minnow	<i>Exoglossum maxillingua</i>	39
Redbreast Sunfish	<i>Lepomis auritus</i>	22
Margined Madtom	<i>Noturus insignis</i>	21
White Sucker	<i>Catostomus commersoni</i>	13
Common Shiner	<i>Luxilus cornutus</i>	5
Smallmouth Bass	<i>Micropterus dolomieu</i>	4
Banded Killifish	<i>Fundulus diaphanus</i>	3
Brown Trout	<i>Salmo trutta</i>	2
Rock Bass	<i>Ambloplites rupestris</i>	1