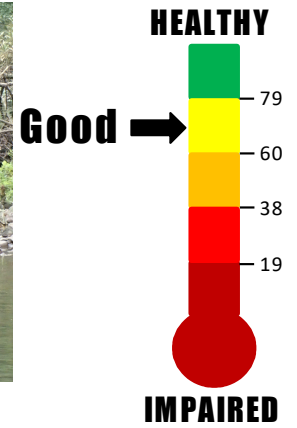


# FIBI067-R4

## Pohatcong Creek

Willow Grove Road  
 Municipality: Franklin Twp  
 County: Warren  
 Drainage Area (sq miles): 36  
 Sample Date: 8 /11/2017  
 Site Type: Fixed



### IBI Metrics

Metric 1-%Rheophilic Richness	66.31
Metric 2-%Cold Non-tolerant Coolwater	55.51
Metric 3-%Generalist Richness	100.00
Metric 4-Tolerance Index	69.07
Metric 5-%Lithophilic Richness	72.44
Metric 6-%Cyprinidae	61.89
Metric 7-%Dominant 3 Taxa	68.89
Metric 8-%Benthic Insectivore Richness	73.58

### Field Chemistry

Air Temp (°C)	22.6
Water Temperature (°C)	20.04
Dissolved Oxygen (mg/L)	8.8
% Saturation	96.7
pH	7.62
Conductivity (µS/cm)	304.4
Total Kjeldahl (mg/L)	0.19
Total Phosphorus (mg/L)	0.11
Nitrate/Nitrite (mg/L)	1.63

***Northern Fish IBI Score (0-100): 70.96***

***IBI Rating: Good***

***High Gradient Habitat Score (0-200): 155***

***Habitat Rating: Suboptimal***

**Summary:** FIBI067 was sampled for the first time since 2008 and results indicate a decline in biological integrity. The 2017 event was the lowest score of the three years of monitoring when the data is compared using the newest metrics. Several metrics including %Rheophilic sp., %Cold Non-tolerant Coolwater sp., and %Cyprinidae all declined from previous sampling events. In 2008, 218 longnose dace were collected compared to just 9 in 2017. Also, 84 wild brown trout including several young-of-the-year were collected in 2008 compared to just 8 wild brown trout and no young-of-the-year in 2017. Nutrient results indicate this site ranks among the highest IBI sites in Round 4 for nitrate/nitrite and phosphorus concentrations.

# **FIBI067-R4**

## **Pohatcong Creek**

<b>Common Name</b>	<b>Scientific Name</b>	<b>Abundance</b>
White Sucker	<i>Catostomus commersoni</i>	138
Blacknose Dace	<i>Rhinichthys atratulus</i>	120
American Eel	<i>Anguilla rostrata</i>	80
Cutlips Minnow	<i>Exoglossum maxillingua</i>	76
Tessellated Darter	<i>Etheostoma olmstedi</i>	70
Common Shiner	<i>Luxilus cornutus</i>	21
Margined Madtom	<i>Noturus insignis</i>	20
Redbreast Sunfish	<i>Lepomis auritus</i>	15
Spottail Shiner	<i>Notropis hudsonius</i>	12
Banded Killifish	<i>Fundulus diaphanus</i>	9
Creek Chub	<i>Semotilus atromaculatus</i>	9
Longnose Dace	<i>Rhinichthys cataractae</i>	9
Brown Trout	<i>Salmo trutta</i>	8
Satinfin Shiner	<i>Cyprinella analostana</i>	7
Shield Darter	<i>Percina peltata</i>	5
Largemouth Bass	<i>Micropterus salmoides</i>	2
Rock Bass	<i>Ambloplites rupestris</i>	2
Fallfish	<i>Semotilus corporalis</i>	1