## FIBI095-R3r Passaic River

**Hardscrabble Road** 

**Municipality: Harding Twp** 

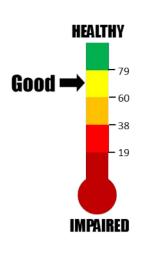
**County: Morris** 

**Drainage Area (sq miles):** 7.8

Sample Date: 07/18/2014

Site Type: Sentinel





## **IBI Metrics**

Metric 1-%Rheophilic Richness	83.88
Metric 2-%Cold Non-tolerant Coolwater	95.49
Metric 3-%Generalist Richness	47.27
Metric 4-Tolerance Index	100.00
Metric 5-%Lithophilic Richness	65.86
Metric 6-%Cyprinidae	66.86
Metric 7-%Dominant 3 Taxa	81.84
<b>Metric 8-%Benthic Insectivore Richness</b>	48.16

## **Field Chemistry**

Air Temp (°C)	23.8
Water Temperature (°C)	18.91
Dissolved Oxygen (mg/L)	9.2
% Saturation	98.3
рН	7.42
Conductivity (µS/cm)	209.3

*Northern Fish IBI Score* (0-100): 73.67

IBI Rating: Good

High Gradient Habitat Score (0-200): 172

Habitat Rating: Optimal

**Summary:** FIBI095 is a sentinel site sampled on a frequent basis to assess environmental change and natural variability in the fish community. 2014 was the first year since the site was first sampled in 2004 in which wild brown trout outnumbered wild rainbow trout. This change in dominance could be an indication of warmer water temperatures in the upper Passaic River, as brown trout tolerate higher temperatures. The 2014 score was one of the lowest scores for this site, but in general IBI scores have fluctuated slightly over the years.

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<b>Common Name</b>	Scientific Name	Abundance	
Blacknose Dace	Rhinichthys atratulus	138	
Brown Trout	Salmo trutta	49	
Longnose Dace	Rhinichthys cataractae	46	
Rainbow Trout	Oncorhynchus mykiss	30	
Creek Chub	Semotilus atromaculatus	16	
Tessellated Darter	Etheostoma olmstedi	10	
Largemouth Bass	Micropterus salmoides	7	
White Sucker	Catostomus commersoni	7	
Pumpkinseed	Lepomis gibbosus	3	
Bluegill	Lepomis macrochirus	2	
Redbreast Sunfish	Lepomis auritus	1	