

FIBI095a-R4r

Passaic River

Scherman-Hoffman Wildlife Sanct

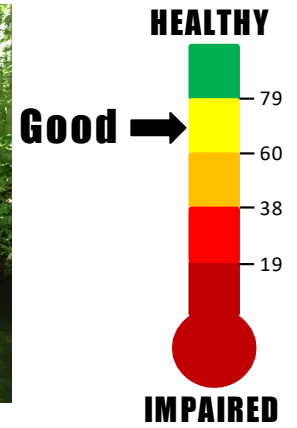
Municipality: Harding Twp

County: Morris

Drainage Area (sq miles): 5

Sample Date: 6 /19/2018

Site Type: Sentinel



IBI Metrics

Metric 1-%Rheophilic Richness	77.02
Metric 2-%Cold Non-tolerant Coolwater	84.88
Metric 3-%Generalist Richness	83.91
Metric 4-Tolerance Index	93.01
Metric 5-%Lithophilic Richness	79.03
Metric 6-%Cyprinidae	64.28
Metric 7-%Dominant 3 Taxa	81.12
Metric 8-%Benthic Insectivore Richness	48.16

Field Chemistry

Air Temp (°C)	26.6
Water Temperature (°C)	21.19
Dissolved Oxygen (mg/L)	8.4
% Saturation	95.7
pH	7.57
Conductivity (µS/cm)	272.3
Total Kjeldahl (mg/L)	0.14
Total Phosphorus (mg/L)	0.03
Nitrate/Nitrite (mg/L)	0.33

Northern Fish IBI Score (0-100): 76.43

IBI Rating: Good

High Gradient Habitat Score (0-200): 176

Habitat Rating: Optimal

Summary: The 2018 sampling event is the first time young-of-the-year wild rainbow trout were not collected at this sentinel location. The rainbow trout population has been declining in recent years and the cause is unknown.

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Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	126
Creek Chub	<i>Semotilus atromaculatus</i>	75
Brown Trout	<i>Salmo trutta</i>	33
White Sucker	<i>Catostomus commersonii</i>	27
Tessellated Darter	<i>Etheostoma olmstedii</i>	24
Longnose Dace	<i>Rhinichthys cataractae</i>	18
Rainbow Trout	<i>Oncorhynchus mykiss</i>	12
Common Shiner	<i>Luxilus cornutus</i>	7
Pumpkinseed	<i>Lepomis gibbosus</i>	6
Redfin Pickerel	<i>Esox americanus americanus</i>	1
Spottail Shiner	<i>Notropis hudsonius</i>	1