

FIBI039-R4

Vancampens Brook

Depew Rec Site Road, off Old Mine

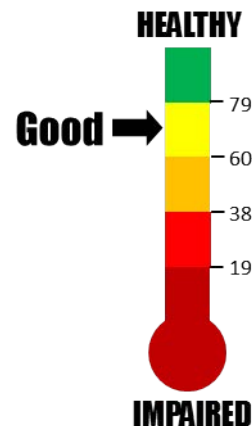
Municipality: Hardwick Twp

County: Warren

Drainage Area (sq miles): 7.5

Sample Date: 07/16/2015

Site Type: Sentinel



IBI Metrics

Metric 1-%Rheophilic Richness	69.60
Metric 2-%Cold Non-tolerant Coolwater	74.85
Metric 3-%Generalist Richness	86.07
Metric 4-Tolerance Index	85.08
Metric 5-%Lithophilic Richness	76.70
Metric 6-%Cyprinidae	61.69
Metric 7-%Dominant 3 Taxa	80.83
Metric 8-%Benthic Insectivore Richness	46.75

Field Chemistry

Air Temp (°C)	23.7
Water Temperature (°C)	15.88
Dissolved Oxygen (mg/L)	9.41
% Saturation	96
pH	7.28
Conductivity (µS/cm)	74.7

Northern Fish IBI Score (0-100): 72.70

IBI Rating: Good

High Gradient Habitat Score (0-200): 182

Habitat Rating: Optimal

Summary: FIBI039 is a sentinel site sampled on a frequent basis to assess environmental change and natural variability in the fish community. Scores have varied over time for reasons which are unclear. The stream is in one of the most protected watersheds in the state, so human influence is minimal. Overall trout abundance and richness is not consistent with 58 wild brown trout collected in 2015 compared to 98 in 2013. All three species of trout (brown, rainbow, and brook) were collected in 2013, but just brown and rainbow trout were collected in 2015. Scoring changes have been primarily due to declines in benthic insectivores and lithophilic spawning fish, which would both indicate impacts to the natural substrate, but the only siltation noted was in the upper 30-m in a slow moving section of the stream.

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Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	167
American Eel	<i>Anguilla rostrata</i>	72
Brown Trout	<i>Salmo trutta</i>	58
Creek Chub	<i>Semotilus atromaculatus</i>	43
Longnose Dace	<i>Rhinichthys cataractae</i>	30
White Sucker	<i>Catostomus commersoni</i>	13
Cutlips Minnow	<i>Exoglossum maxillingua</i>	9
Fallfish	<i>Semotilus corporalis</i>	7
Yellow Perch	<i>Perca flavescens</i>	6
Margined Madtom	<i>Noturus insignis</i>	4
Smallmouth Bass	<i>Micropterus dolomieu</i>	3
Pumpkinseed	<i>Lepomis gibbosus</i>	2
Common Shiner	<i>Luxilus cornutus</i>	2
Green Sunfish	<i>Lepomis cyanellus</i>	2
Rainbow Trout	<i>Oncorhynchus mykiss</i>	1
Yellow Bullhead	<i>Ameiurus natalis</i>	1
Largemouth Bass	<i>Micropterus salmoides</i>	1