

# FIBI421a-R1r

## Dunnfield Creek

I-80

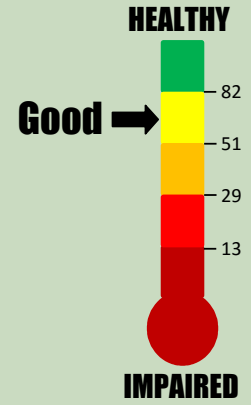
Municipality: Hardwick

County: Warren

Drainage Area (sq miles): 3.53

Sample Date: 6 /7 /2017

Site Type: Sentinel



Metric 1 - Number of intolerant vertebrate species	100.00
Metric 2 - Proportion of vertebrate species as top carnivores	100.00
Metric 3 -Percent tolerant fish	64.28
Metric 4 -Proportion of total richness as native	85.71
Metric 5 -Percent native crayfish	100.00
Metric 6 -Brook trout density	9.53

Air Temperature (°C)	16.3
Water Temperature (°C)	12.19
Dissolved Oxygen (mg/L)	10.56
% Saturation	98.5
pH	6.45
Conductivity (uS/cm)	26.1
Nitrate/Nitrite (mg/L):	0.0424
Total Kjeldahl (mg/L):	0.0518
Total Phosphorus (mg/L):	0.0103

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***Headwaters IBI Score (0-100):*** ***76.59***

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***IBI Rating:*** ***Good***

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***High Gradient Habitat Score (0-200):*** ***190***

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***Habitat Rating:*** ***Optimal***

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**Summary:**

FIBI421a is a site within the United States Environmental Protection Agency's Regional Monitoring Network (RMN) to evaluate changes in air and water temperature as well as changes in the stream's biota at least disturbed sites. Dunnfield Creek is also a sentinel site which is sampled every three years for Headwaters IBI monitoring. Dunnfield Creek was in "good " condition when sampled in 2014 and 2017. This site is within a heavily forested and protected area in the Worthington State Forest which is adjacent to the Delaware Water Gap Natural Recreational Area.

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<b>Common Name</b>	<b>Scientific Name</b>	<b>Abundance</b>
Brown Trout	<i>Salmo trutta</i>	31
American Eel	<i>Anguilla rostrata</i>	23
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	13
Brook Trout	<i>Salvelinus fontinalis</i>	13
Green Frog	<i>Lithobates clamitans</i>	2
Common Crayfish	<i>Cambarus bartonii bartonii</i>	1
Northern Red Salamander	<i>Pseudotriton ruber ruber</i>	1