

FIBI502-R1

Brass Castle Creek Tributary

Brass Castle Harmony Road

Municipality: Washington

County: Warren

Drainage Area (sq miles): 0.9

Sample Date: 9/18/2013

Site Type: Sentinel



Metric 1 - Number of intolerant vertebrate species	66.67
Metric 2 - Proportion of vertebrate species as top carnivores	75.19
Metric 3 -Percent tolerant fish	100.00
Metric 4 -Proportion of total richness as native	100.00
Metric 5 -Percent native crayfish	100.00
Metric 6 -Brook trout density	100.00

Air Temperature (°C)	12.8
Water Temperature (°C)	11.63
Dissolved Oxygen (mg/L)	10.6
% Saturation	95.9
pH	5.98
Conductivity (uS/cm)	177

Headwaters IBI Score (0-100): 90.31

IBI Rating: Excellent

High Gradient Habitat Score (0-200): 155

Habitat Rating: Suboptimal

Summary: FIBI502 is a sentinel site which is sampled every three years for Headwaters IBI monitoring to evaluate assemblage changes through time and to better understand natural variability. This site contains an abundance of brook trout, as well as several other sensitive crayfish and salamanders.

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Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	147
Brook Trout	<i>Salvelinus fontinalis</i>	97
Northern Dusky Salamander	<i>Desmognathus fuscus</i>	15
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	2
Common Crayfish	<i>Cambarus bartonii bartonii</i>	2
Pickerel Frog	<i>Lithobates palustris</i>	2
Green Frog	<i>Lithobates clamitans</i>	2
Bullfrog	<i>Lithobates catesbeianus</i>	1